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Amazing Stories

Scientific Fiction

Vol. 7

November, 1932

The Doom of Lun-Dhad

No. 8

In Our Next Inne

THE WORLD OF THE LIVING DEAD, by Ed. Earl Repp. Our readers are now familiar with the characters in this most striking story. It is concluded in this issue and up to the very last pages it is impossible for the reader to surmise how it is going to end. It has the sustaioed interest that characterizes this author.

NO MORE TOMORROWS, by David H. Keller, M.D. to his atory by Dr. Keller there is a strong seach of the grossesse, remisding us of some of the strange stories of Edgar Alia Pose. Dr. Keller's national standing as an authority on psychology and the curious operations of the human his skill as a writer, makes this a valuable contribution to our pages.

ROADWAYS OF MARS, by Harl Viscent. There is little to be said about a story by Harl Viscent. He has won for himself a very high place in the extern of our readers, and the Editors of lamagration always welcome the work of his pen. It gives an excellent interplanetary story for this issue and will be welcomed by our readers,

THE CALL TO MIGRATE, by H. M. Crimp. There is a special interest in this story in which entermology plays an important part, as it is by an Australian author. It is very interesting to see how a writer in the Autipodes will treat his subject. Entermology is developed in so characteristic away in the great cootinent of the east.

And other unusual acientific fiction.

In Our November Issue

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Our Cover

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EDITORALA AND EXECUTIVE OPPICES

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Discussions

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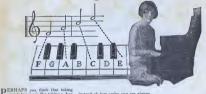
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The Rotating Earth

By T. O'Conor Sloane, Ph.D.



HEN a body is in rotation about its axis it develops very striling forces. Of all the inventions of maskind, it has often been remarked that the wheel is perhaps the greatest. When a boy spins his top it stands farmly or with a graculti swaping motion on its sharply pointed end, or it may be that it has a somewhat rounded end on which it spins,

it has a nomewhat founded end on which it upins, but always with the large end upward, in appeared disance to the force of gravity. Now it so happens that in this world of our motions in curren play an enromously important part, of which the wheel just allosed to is an example. Motion in an abunded straight line aream forceing to the commer system, and howbooth straight line aream forceing to the commer system, and symmetrical in shape each whirling around its axis like a top or a giguint gryrocope.

The points on the earth's untiles which represent the ends of the axis, as we how, are termed in poles. The axis of the earth previews an above unchanged direction, but in the course of montion is called the precession of the equal to the course of the control of the control

personne of the employment which is very slight and done it is married in the order to the legal rate. A good many reservants in its married to the legal rate. A good many reservants in the control of the control of

six and one-half miles if it had depth enough to go that far. It might uncome the territory of the hat Atlanta Africa and might uncome the territory of the hat Atlanta Africa and the second of the control of the cont

consed turning on its axis.

Just as we have spoken about the depths of the occan in the vicinity of the Equator being hid bare, the water of the core model run north and pouth burning wast regions of the centre of the core of the cor

If we try to imagine the rush of water from the Equator to the northward and southward, the imagination can hardly patture the extent of the varying of the ocean's depth and the flooding of northern and southern lands adequately.

In some of the electrific intrinsions of the earth, a produlum constraint of a higher of metal suspended by a wire prefusal a handered or more teen in leasth is ensued to reining. Swingels is in terms the Equater that will indicate the recursion of the earth by constantly changing the direction of its strate. This is an extension popular that will indicate the recursion of the earth of the earth of the earth could be a strate of the earth consists of the earth could be a strate of the earth could be only axis is concerned the produlum would cover change the direction of its away, except as for an the remain change is directed in the earth of the earth could be a strate and the safet and fore said in spraided under it to some little depth and stafe and for said in spraided under it to some little depth and the distantance of the earth by the produces above the resident

At the Antarctic regions the great continent carries a mountain about two miles in height. If the ocean fell six and one-half miles at the Equator the Admiral Byrds of the future might sail over the South Pole in their shops. The imagination car porture all sorts of changes and it is very libely that the error would be the direction of not picturing them snything like all great as they would really be.

The Doom of Lun-Dhag

By William Lemkin, Ph.D.

Author of "Blue Waters," "Cold Light," etc.

FUNDAMENTALLY, peoples of any creed or race react in much the same
manner to similer stimult. A scientif-analic of this country might plan to
gain an elevious end in one way, and an Oriental scientist-fanalic might make
catively different plans, but in the final analysis it's the end that counts. What
the "hero" of this unusual science fiction story does, though it seems beyond
ordinary credence, is plausible and its passibilities seem convisioning.

Illustrated by MOREY

HE first missile that fell was reported by the S. S. Vincent. She radioed her position at the time as approximately thirty miles northeast of Sandy Hook.

No, it wasn't a meteor—the captain was

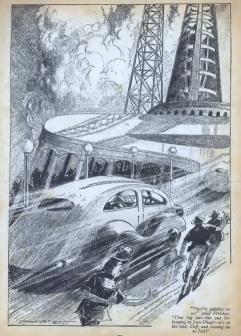
No, it want't a meteor—the capitals was positive and the language of the on the bridge at the control of the co

gentry out or signt.

Yes, he had turned his ship around, and circled the spot where the strange object had disappeared, waiting for any further developments, but nothing else had happened. At first he suspected that the thing had dropped from some aircraft, but none was either visible or audible aloft. A most mysterious occurrence, and one that ourly to be investigated. Of that he was courinced.

Before this bit of news could be digested properly, the second missile arrived, This one, coming apparently out of nowhere in just on that nod memors an described by the expansion of the memory of the expansion of the expansion of the western end of Concy Island. It was early afternoon, the day was mild, and consequently there was a ruther considerable crossed of artiflers on the boordeals. Many considerable crossed of artiflers on the boordeals. Many expansion of the expansion of the constraints of the third was a state of the expansion of the expansion of their was about them at the moment, and were last their with about them at the moment, and were last their with about them at the moment, and were last and story, were agreed in the mins. The object was not the same general size and shape as the one reported to the same general size and shape as the one report most.

The new spread rapidly. Everywhere the topic of discussion was these two mysterion smaller. Where lad they come from? What did they comain? Exploitable (1900) and the spread of the common street of



At the same time all shipping was warned against venturing too close to the point at which the object bad hit the water. The authorities were taking no chances. Meantime, a systematic program of investigation and

inquiry was instituted to determine the source of these objects. Radio messages flashed in all directions. Was there any gunning practice going on?... any experimentation on projectiles?... was it nothing more than a novel publicity stunt?... the start of an advertising campaign to introduce some new cigarette?... was it merely a practical joke of some sort?... a boax?...

All inquiries proved futils. Not a soul appeared who could shed the slightest glimmer of light upon the phenomenon. The scope of the questioning was extended. Canada, Central and South America, even Europe sent back replies to urgent radio messages, admitting themselves; just as completely in the dark as were the local authorities.

Queer . . . decidedly queer? Two strange objects drop into the ocean ostensibly from nowhere. How and why they were sent aloft no one could explain. Apparently they did not originate anywhere on the earth's surface.

It was not long before public conjecture and delate cryptallized into a definite belief: There similire had come to set from outside the corth: ... The idea caught the popular fazery. A visitor from outer space! A meather in the vast interstellar regions. People talked of nothing else. The missiles must be recovered—there in the vast interstellar regions. People talked of nothing else. The missiles must be recovered—there messages must be read. What? ... Explosives? ... Book! ... If these projectiles considered detonating materials, they would have let go their charge the very momental continuation of the control of the control of the control and nothing universal had occurred.

The belief that the two missiles really had an extraterrestrial origin gained ground with each passing day, and even the most serious-minded, including some wellknown scientific authorities, began to accept the idea as a reasonable working hypothesis. Preparations were rushed to make a detailed investigation of the submerged

objects. On the morning of the ninth day following the spectacular descent of the second missile into the waters of lower New York Bay, diving operations were started off the Coney Island shore. The waves had barely closed over the first submarine diver at that spot, when the world was electrified by news of the arrival of missile No. 3. Unlike the others, this one struck dry land. The passengers in a westbound railroad train, that was speeding on the trestle across the Hackensack Meadows of New Jersey, were thrown into a sudden mad panic when this unearthly thing swooped down in a brassy smear, and struck with a dull thud in the soft earth not twenty feet from the tracks. Many others had seen the approach of this phenomenal visitor from various distances, and the spot was the Mecca that soon drew thousands from the populous districts all about. Word flashed like lightning, bringing a milling throng that grew with each passing moment. All kept, however, at a respectful distance from the queer object. And a queer object it was . . .

Imagine if you can a torpedo-like cylinder, about eight feet long and two feet in diameter, tapering to a point at each end, and balanced upright with its nose partly buried in the soil. Apparently it was composed of some alloy resembling brass, although its color was

somewhat lighter, and it glistened with a peculiar sheen that was totally unlike any brass ever seen on earth before. The sides of the missile were of the utmost smoothness-in fact the entire object gave the appearance of having been machined as a unit from a single piece of metal. Close to the bottom there projected from the body three slender rods of the same metal as the rest of the structure. These rods ended in flat, knoblike feet that rested on the ground and gave additional support to the upright mass. Opinion was sharply divided as to this tripod arrangement. Some of those who witnessed the arrival of the missile swore that these rods were not visible during the descent-that they shot out from the sides of the object the instant it hit the ground. Others were equally positive that the legs were there all the time, and that the mass landed squarely on the pointed nose and the three flattened knobs at the

end of the rods.

Whichever way it had happened, there was this extraordinary thing standing erect and rigid, glistening with a strange, unearthly justre in the bright rays of the

noonder sun

There was no doubt about it, now!.. Everybody was convinced. A visitor from the slicis!... A message from outer space! Was it the beginning of a military invasion? Was it a harbinger of peace and good will? No one knew. No one could even venture a guess. Why dish't the suthortised so omenthing about it?. Why the delay?... Valuable time was being lost, and no one seemed to know how or where to start!...

The police took immediate charge of the situation. A group of representative authorities was hastily convened, including some high military officials from Governors alsaland, and several scientists peremptorily summoned from their tasks in New York and Washington. Within an hour from the time that the projectile had settled on the Jersey meadows, the commission was at the scene studying this stranger visitor from soace.

Apparently satisfied as to its praceful character, their sensigning group made bold to approach the object and study it clorely. They circled it and sequend to feel in study it clorely. They circled it and sequend to feel in supervision of the control of the control of the conpaced against the branzy surface could just make out a placed against the branzy surface could just make out a cover the entire missile, even to the tapering end pointing cover the entire missile, even to the tapering end pointing cover the entire missile, even to the tapering end pointing control of the control of the control of the control of the control missile put up against the side. Even the most missile inspection failed to reveal any break in the most invested for projective source. The some

creviee that would indicate a trap-door or other means of communication with the obviously hollow interior.

With each passing moment the handful of army officers and scientists became more and more perplexed. Nothing tangible—not a che as to the meaning of it no rhyme or reason about it at all. And the densityarized police lines, were beginning to get ever more realters. The tension of the entire situation was becoming

unbearable.
Then it happened . . .

One of the men might have touched a hidden button or control device. More likely it was the work of some automatic timing mechanism which had been set to operate after the lapse of a given interval. At any rate, a long thin crack was suddenly observed to appear in the hitherto unbroken expanse of metallie surface. The slit ran longitudinally almost the entire length of the shell. Hardened military officials and staid scientists alike fell back in near panic, and viewed the phenomenon from a respectful distance. But nothing of a hostile nature developed-nothing more startling than the gradual widening of the narrow chink. The investigating commission drew closer, cautious to the extreme, while the encircling multitudes watched with bated

breath. Slowly the slit expanded, as though by the sliding back of a curved panel, until a rectangular opening was revealed, large enough to admit the body of a man. The investigators waited-the throngs of tense spectators waited-nothing happened. The hardiest of the official group ventured to peek into the interior. It was empty, The cylindrical compartment appeared to occupy the entire body of the shell, with the exception of the tapering ends. An eerie sort of illumination, the source of which it was impossible to fathom, flooded the interior. The curved walls, as well as the top and bottom of the narrow chamber, were covered with a soft, cushion-like material, as though to offer a protection from bumps or jars to any being that might find itself a passenger in this queer vchicle-if vehicle it really was. But the compartment was undeniably empty. Not a thing, living

or inanimate, was visible within But wait! . . . What was that oblong something lying on the floor, on the far side of the compartment? One of the officers reached in and gingerly extracted it. A box-a metal box, evidently of the same material as the shell, with a queer design engraved on the top. The hinged lid opened readily, to disclose a roll of what appeared to be a thin, delicate sort of parchment. A message! . . . Trembling fingers unrolled it

Yes . . . a message! . . . and in English! . . . A queer angular scrawl, hair-like and quivery, but a real message in English, and not difficult to decipher. It's cryptic con-

tents ran: Send two of your leading chemists. The vehicle starts its return voyage at the next sunrise,"

THE next news-bulletin will be issued in fifteen minutes. Please staid by for . . . Ray Fletcher snapped the switch of the radio with a

slight gesture of petulance, and turned to his chum. "Nothing but talk, Cliff. . . all talk and no action." He flung himself on a seat beside the other, and

drummed nervously on the table top with his fingers. Clifford Hale eved his friend balf smilingly. "Now look here, Ray," he gueried. "What would you do in a situation like this? You know all the facts of the case. Well, what would you do?'

"Do?" echoed Fletcher with feeling. "Why, confound it all, Cliff, I'd show those devils, whoever they are, where they came off! I'd put a good healthy stick of dynamite underneath that all-fired contraption of theirs and blow it into a million pieces. The nerve of them

aren't on to their methods!" "Hold on a minute, my dear Ray," his friend rejoined. "Even the best authorities aren't agreed about this thing. So far, we're pretty much in the dark as to what it all means. We shouldn't jump at conclusions-it's too serious a matter to be treated hastily."

"Well, you agree, don't you Cliff, that this torpedo,

or whatever it is that's standing out there on the Jersey Meadows this very minute, comes to us from some spot in outer space?"

"That's pretty well agreed upon by all those who have given the matter some serious thought." "Right! And when they start demanding that we

send them our best scientific brains, it doesn't look as though they are impelled by a motive of altruism or philanthropy, does it?"

"I'm afraid not, Ray, but that's all the more reason

why we ought to proceed with great caution. If we demonstrate our hostility right off the bat-if we should treat this torpedo of theirs in the manner that you suggest-why, can't you see the result? What's to prevent them from dropping a whole flock of these shells right down on our heads-not empty ones like this one. but all loaded with some stuff that would smash us and our cities to atoms? No. my dear Ray, we can't afford to take any chances-we can't afford to act thoughtlessly and rashly. The authorities who are in charge of the matter are doing exactly the right thing-taking it easy-observing developments with extreme caution.

Still unconvinced, Fletcher deigned to check his galloping hostility, and to look at the situation reasonably. The two chums fell to discussing again the facts and probable significance of this extraordinary visitation-this had been their solitary topic of conversation ever since the first radio bulletin had come out with the startling

information early in the afternoon.

"But what the dickens would they want with a couple of our chemists?" was Fletcher's insistent query. "If they are able to send these rockets or whatever you want to call them, down to our earth so neatly and accurately, then they must be miles ahead of us in scientific achievement and progress. Why then should they want to bother to send for scientists from the earth?"

"I'm sure I don't know," averred Hale seriously, "unless they want to get some bit of chemical information they haven't that we have. That idea isn't at

all impossible." "And then there's this note-in English," added Fletcher thoughtfully. "Those guys must be a pack of wizards to become acquainted with an earth lan-

guage by long distance. Maybe they've developed a kind of high power televisionary something-or-other with which they can peck right down on us and study our ways and habits-and even our language?" "Then, if this interplanetary race of people are ac-

quainted with our earth so thoroughly," asked his chum. "I'd like to know what good it would do them to have us send them our chemists." Which brought them right back in the seemingly endless circle around which they had been arguing for so long.

Hale started off on a new track. "That shell of theirs must certainly have a slick ar-

rangement to enable it to find its way back to the exact spot in space from which it started." "Maybe there's some kind of intelligent being that's

hidden aboard," ventured Fletcher-"a thinking being . . . trying to threaten us this way . . . as though we that steered it down to earth, and will navigate to back "That's unlikely," replied Hale, "The radio news bulletins that have been coming all afternoon directly from the scene, have disproved that notion pretty thoroughly, The investigating commission of experts have gone over the entire projectile very carefully. Outside of small sealed compartments, one at either end, the shell is empty. These two tiny chambers are hardly big enough to act as a hiding place for any thinking and intelligent being." "Of course," put in Fletcher, "we may be all mistaken about the sort of intelligence we're dealing with here-perhaps the blamed contraption is being navigated and controlled by a mere insect or something. "Well," replied Hale, "that's possible, no doubt, but

the odds are all against the idea. Judging by the buzzing sounds coming from these nose and tail compartments, there appears to be some kind of automatic machinery running within-and it's adjusted to go off at sunrise tomorrow . . .

"With or without those two chemists, they're asking for," added Fletcher in a significant tone. His friend

They turned to the radio once more for further developments. There was little news to report. The debate which had developed as a result of the inexplicable demands contained in the strangely written note was still very spirited. The concensus of opinion leaned toward the idea that the command was an outrage-that it should not, under any circumstances, be complied with

-that a severely worded note of reply be enclosed in the shell denouncing the entire notion and stating our defiance in unmistakable terms. There were some few voices raised in support of the opposite course of action. These maintained that it was a request from an apparently friendly race-that much good would accrue to the inhabitants of the earth by contact and exchange with a civilization which was admittedly far more advanced than any that we knew. Yet there were no bold offers from the proponents of this course-no intrepid volunteers to enter this extra-terrestrial projectile and be whizzed into space when the sun rose the following day.

THE evening wore on, with terse bulletins flashing through the air at regular intervals, and our two young friends riveted to their radio, as were countless thousands over the entire land and beyond the seas. A feverish excitement prevailed, which heightened as the fateful minutes ticked away. There was bectic activity, not only at the very spot where the ominous projectile stood, but in scientific and government circles everywhere. A thousand theories, a thousand conjecturesschemes and counter-schemes-plans of action hastily formulated and just as quickly abandoned-and the sinister missile stood grim and erect. Midnight came and went-nothing tangible had so far been accomplished, and only a scant four hours remained before the summer sun would poke its rim above the horizon for the start of another day.

There was no sleep for Cliff Hale and Ray Fletcher, Who could think of sleep when such momentous doings

were afoot?

"What wouldn't I give to be on that spot over in Iersey right now!" Fletcher's voice bore an almost imperceptible tinge of hope, although he knew that the thought

was a far-fetched one.

"I suppose though, that you couldn't get to within a mile of the place unless you could show a set of iron-clad credentials." He turned down the radio so that only a whisper remained of the blatant jazz band which filled in between the sententious news bulletins concerning developments about the projectile. For a few moments there was silence, except for the faint rbythmic beat of the dance orchestra.

Then suddenly Hale loosed an exclamation and jumped up from his position on the couch. He rummaged excitedly among some scattered effects in a desk drawer and presently emerged with a whoop of triumph, waving a blue card exultantly.

"And to think that I clean forgot about it!" be shouted gleefully-"that police card-the pass I got last spring from my Uncle Charlie-you know whom I mean-the deputy sheriff of Union County over in Jersey? It got us by the fire lines at that big Newark chemical ex-

plosion then, and by George, it ought to turn the trick

for us here. At least, it can't hurt trying."

Fletcher promptly fell in with the enthusiasm of his chum, and they made an immediate dash for the Hudson tubes. It was well past one o'clock, midnight, when

they reached their destination. Even at that ungodly hour they encountered a milling stream of curiosity seekers surging restlessly over the dark meadows in the vicinity of the projectile. Rigid police lines kept them back, however, so as not to hamper the operations of the officials about the queer object. The two bold adventurers worked their way resolutely through the throngs. Their precious pass worked marvels for them. A clean corridor was being maintained through the mass of packed humanity to enable the passage of cars bearing various officials, reporters, photographers and other accredited persons. Down this open lane Hale and Fletcher were hustled, until presently they stood in the very shadow of the awe-inspiring messenger from another world. The scene was illuminated by several powerful searchlights mounted on army trucks that were stationed within the cleared circle. The strong glare of thousands of candle power directed upon the upright shell threw it into bold relief against the inky blackness all about.

"What a queer looking affair!" breathed Fletcher into his friend's ear. They circled the metallic projectile, felt of its cold, hard surface, even ventured to take a peek into the mysteriously vacant and strangely upholstered interior. There was very little activity now among the group of officials about the glistening shell, For the most part they stood around in small knots conversing earnestly. The air of perplexity and tension was present everywhere.

"Lord !-what an adventure that would be!" whispered Hale as though he were thinking out loud-and

indeed he was. "Adventure?---What do you mean, Cliff?" asked

Fletcher sharply, turning upon his friend. "Oh . . . it just entered my mind what a great stunt it would be to go off inside of that thing when she

starts on her return trip." Hale chuckled to himself softly at the mere notion of such an escapade.

"A great idea-that," laughed Fletcher, "provided you could arrange some way of getting back to earth after

the adventure is over." "Oh, don't think for a minute, Ray," returned the other with a smile, "that I'm proposing any such rash undertaking. "But," and now Hale's tone became thoughtfully serious, "the idea just popped into my

mind . . ." The two friends circled about among the aggregation of scientists, newspaper men, high government personages and assorted authorities clustered around the missile. They listened attentively to the agitated discussion in this or that group, venturing an idea here and there themselves. The sum-total result of all the argument and debate could be represented by one profound question mark. All that could be done was to wait and see what the developments might be in this extraordinary

The first faint streaks of dawn sent a new quiver of suppressed agitation through the assembled multitude. Aware that something startling was sure to happen at sunrise, thousands more came from miles about to swell the vast throngs that had remained about the scene throughout the entire day and on into the night. The police lines were forced back to a greater distance, so as to clear an even larger circle around the fateful shell. The appregation of scientists and investigators drew back in groups of hushed tenseness. Everyone knew what was about to happen-the cryptic message, in the strange box that came with the projectile, had announced what the program was to be at sunrise. And there was not a soul in the vast assemblage who doubted for a moment the fulfilment of the schedule-there was something about the whole mystifying procedure that denoted scientific precision-harsh, cold, cruel methodicalness. "Gosh, this is giving me the creeps!" Fletcher's hard

breathing revealed his extreme agitation, "Hold still", here's where conething's going to happen?" Hale gripped his chum's arm. Yeal there it was!... the first dazzling flash of light over the long Jersey City ridge to the east, ... the first slanting rays of the sun touching the closely packed mendows with beams of cherry and yellow—glinting menacingly from the metallic thine that reared its height on the

level plane.

And, as if the magical touch of these rays had actuated some invisible mechanism, the sliding panel began to move—slowly at first, and then more rapidly, as though the huge shell possessed life—as though it wanted to be off and away, bearing in its empty interior a wordless message of negation, failure and defeat.

The panel slid light with a deliberate click. A myrial horrhifed eyes were upon it as the projectile quivered slightly, and then suddenly began to ascend, leaving behind it, half burstell in the ground, the three feet-like behind it, half burstell in the ground, the three feet-like under slidell swiftly rose, its brasay surface catching and scattering the rays of the rising sun. Straight up. with thousands of necks craning, and thousands of eyes straining to follow it in its flight. In lies than a half variety vertical path, was completely availableed up by the mist and haze of the atmosphere above.

So ended that mystifying episode—for the time being at least. The whole incident might well be considered a bad dream, if not for those tangible proofs that this content visitor left behind it—the three metallic supports that that held the shell in an upright position, the small

hinged box with its queer designs, and the tersely worded message that it contained.

The tripod and box, apparently of the same metal as the torpods, over subjected to chemical analysis. But the tests never got beyond the first stage, for the simple reason that the metal was soon found to be inert to all known chemical reagents. Further, it was infusible to the control of the control of the control of the control croscopic and spectroscopic tests yielded no more information than did the chemical tests. The metal remained just as profound an enigma as the shell and its purpose.

Comment and discussion were everywhere rife—what was this mysterious race out there in the interstellar wold? Why did they require terrestrial scientists? Why and they picked on the earth? What means had they employed to propel and guide their space messenger? Had they simed at any particular, spot on earth or were they shooting at random? What automatic mechanism controlled the return trip through a trackless empiness? Would this race of intelligent beings accept our word-baster to this tense drama. What we opper a second chapter to this tense drama?

Debate . . . interrogation . . . conjectures . . . perplex-

at Light

"THOSE dirty rats! . . I'd like to lay my hands on one of them this very minute!" Ray Fletcher's fists clenched, and his eyes blazed

Ray Fletcher's fists clenched, and his eyes blazed with a fire that his chum had never seen there before. Hale made no answer, but turned once more to the newspapers soread out on the table before them. They

contained all the blood-chilling details of the latest visitation from the sky.

On Tuesday at surrise the Jersey shell had taken its mysterious departure into space under circumstances that Hale and Fletcher would not soon forget. For two days an expectant world had hived through a period of extreme tension. Something was going to "break" that was a dead certainty—but what was it going to that was a dead certainty—but what was it going to Two days of anxiety and dread . . . and then had come the horrible "break" . . .

Yesterday, Thursday, Shell No. 4 had been sighted over the little village of Lake George, east of the Adirondack Mountains of New York State. Without any ado, it had fallen in the very midst of the motor tourist camp on the outskirts of the village, had detonated with terrific violence, and had converted a peaceful little vacation community into a horrible shambles.

"There, in the newspaper before them, were all the blood-curding facts of the atrocity, the eye-witness stories, the harrowing tales of survivors and injured, the vivid news photos that told more than words could of the horror that had suddenly stricken a peaceful locality.

"What if that shell had landed in the heart of New York?" exclaimed Fletcher . . . "Can you picture the awful consequences?"

"It's bad enough as it is," mused Hale, "without trying to picture anything worse."

"But," returned his chum, "it's altogether possible that this one is only a beginning. There's no doubt that we're in for something—something too terrible to imagine. That crary pack of scientific lunatics up there, wherever they are, have run amusck. We ignored their demands to come across with our two scientists and now they are showing us that they mean business."

"Something drastic will have to be done," was Hale's gloomy rejoinder---"but what?"

gloomy rejoinder—"but what?"

And his interrogation was echoed around the world
in the discussions that raged feverishly as a result of

the latest atrocity.

Again a floot of officials and scientists gathered at
the scene of the new outrage. Fragments of shell were
retrieved from the class of wreckage at the scene of
the explosion. The nextly proved to be that same restamt material, with which, at lost superficially, the
scientific provided of the scene of these fragments attented the terrific violence of
these fragments attented the terrific violence of
the explosive used, as did the avoid extent of destruc-

tion wrecked within a wide area of the spot where the tornedo had landed.

Interest immediately centered in the nature of the explosive used, for undoubtedly it was of a power far explosive used, for undoubtedly its was of a power far surpassing anything ever contrived by terrestrial chemists. For hadri's landstered to liviny fragments the braisy metal which had proved resistant to all known chemical and disruptive agents? After a cartrell search of the spot, the scientists succeeded in gathering together a mirrue quantity of a queve yellow product had gottern a mirrue quantity of a power yellow product had some decomposition product resulting from the detenation. Bevoal midiative traves of a special and trovious.

this material, too, defied the most peristent efforts of the analysts.

The next few days passed uneventfully. A week went by, and the hecit excitement engendered by this freakish series of occurrences began to cool off. Perhaps this was the end of the episode. Improbable though it appeared, maybe the nameless foe from outer soare had decided to give it un as a bad ibb. and

take its preposterous demands and its terribly swift

form of vengeance elsewhere.

Projectie No. S arrived to shatter the feeble hopes which had grown up for a cessation of these one-sided with had grown up for a cessation of these one-sided as a field cutside of a small Freach handlet shout twenty miles from Paris. And there promptly followed a repetition of the entire drama of the Jersey projectile—the assembled through from near and far—the sliding cut the same cannot be sufficient to the same through the same than the same cut to researce cannot be considered to the same control of the same through the same t

Again intense excitement—consternation—what to do?—to comply?—to ignore?—to accept the inevitable reprisal in the form of a death-scattering torpedo

droped upon some peaceful community?

Then came will proposal from an atterly unexpected from the control of th

Aghast at the sheet foolhardiness of the proposal, the French authorities went into hasty consultation, and came to the conclusion that nothing could be lost by such a proceeding—at least nothing of any great value!

—mble immeasurable good might come of the project. The two adventures were therefore transported to the The two adventures were therefore transported to the flight into the unknown. It was close to mindight when the properties of the completed. The fall of was schooland to go off at number. To do not not see the extract the properties of the complete transport of the complete transport of the complete transport of the and pieces the consequently, the interped convicts were brought forth and pieces the consequently the interped convicts were brought forth and pieces the consequently the interped convicts were brought for the cannow aperture into the product intervent. The other followed on his beets. There was just sufficient space while for the year own to make go just they just, with which produces the product of the product while for the year own to make go just they just, with which were the product of the product while the product of the product while the product of the product while while the product while the product while the product while while the product while the product while the product while while the product while the product while the product while while the product while the product while the product while while the product while the product while the product while The convicts were hardly within the chamber when a phenomenal thing occurred. Without a warring sound or sign, the metallic panel slid swiftly in its grooves. Fingers and toos were hastly snatched from the path of the knift-like edge in the nick of time. Snap1 The door clicked shirt. An ominous quiver, and the glistening shell slipped upward into the midnight sky, carrying metallic short of the shirt of the control of the control of the desire of the control of the control of the desire of the control of the control of the desire of the control of the control of the desire of the control of the cont

"YOU'VE sure got to hand it to those two French murderers," vouchsafed Fletcher with feeling, "—to risk their necks the way they're doing now."

The two chums were watching these extraordinary developments, as were millions of others, through the medium of continuous news-broadcasts from the scene.

out of continuous news-proaucasts from the sense.

"Oh, I'm not so sure," returned Hale, "that the odds are all against the fellows. We know at least there's a way back to earth that's available to them If they can only use it. I mean, in one of those shells. Anyhow it's certain to be a great adventure—while it lasts;

it's certain to be a great adventure—while it lasts. Fletcher eyed his friend narrowly. "Say Cliff," he asked with deliberation, "didn't I hear you use almost the same words over near that Jersey shell a couple of weeks ago? 'Lord, what on adventure that twould be!" Why, Cliff 1. .."

"You're right, Ray," returned Hale with a chuckle,
"... and I still believe that it would be some stunt."

"Well, I'll be blowed!" Fletcher exhibited unvarnished astonishment. "I'd almost believe that you wish right now you were one of those two convicts sailing up there among the stars at a thousand miles a minute!..."

Hale deigned no reply, but turned to the radio instead to tune in the latest news regarding this "great adventure."

There were no developments for two days, during which Islas and Belcher muintained an almone constant wigit at their receiver. They were both glued to the instrument, when, on the third day, the fateful word was beastless of the return of shell No. 5 to Presch soll—They were published to the second of the sec

ned observers could may reduce what was nappening. Post-morten examination of the two unfortunate prisoners revealed no exterior marks on the body. Lungs, heart and other organs gave evidences of instantaneous cessation of vital functions in a manner strikingly similar to the results of electrocution.

"Poor fellows," remarked Hale, "they meant well . . ."
"Not such a 'great adventure' after all," was Fletcher's

"Not such a '; dry comment.

A few hours after the dramatic delivery of the two bodies, an explosive shell dropped suddenly into the English Channel about ton miles from Havre and sent the property of the control of the control of the Fortunately here was no dramage to nearby shipping, although a ministure tidal wave was rolled up on the French shore by the explosion. The following day, however, a second torpetol Insides squarriy on a fishing the holocusts in the camping grounds near Lake Ceorge.

The seriousness of the situation was more apparent

than ever. The human race was dealing with a cruel, relentness foe, empowered to strike swiftly and terribly at will. And there was not a single means available for the terrestrial people to defend themselves. Again a lanee of a few days, while millions every-

where wondered where the next blow would strike. And once again the radio blasted forth in stentorian accents of the latest visitation—the arrival of a projectile on English soil, with the same cryptic demands for chemists— British chemists, this time.

nan sou, with the same cryptic demands for chemists— British chemists, this time.

When the news came of the bold course of action immediately decided upon by the English authorities, Fletcher, rooted in front of his precious radio, slapped

his knee approvingly, and chuckled with boyish glee.

"That's the ticket, Cliff!" he exclaimed. "That's the
only way to answer those confounded devils. A nice
hefty load of high explosive dropped right down on their
heads—and in their own torpedo, too. Those Britishers
ought to stick a label on it before sending it back: Many.

hoppy returns of the days! Ha—ha—chairs rich!..."
Hale was thoughthu!..."It deem's look so good to
mo," be ventured. "What is the shell is sent back with a
ordinal result of the shell is sent back with a
ordinal tarning point? At been, it is onto it along at its
dark. We don't know whom we're fighting, how strong
they are, what further means they have at their command, busides this strible engine of destruction which
they have altrackly shown us. If they want to, they
nave altrackly shown us. If they want to, they
no way of either defending ourselves or currying the
stanks to them."

Fletcher was insistent. "I still believe that this idea is worth carrying out. At least it will show them that we don't intend to let ourselves be browbeaten or buffalood into accepting their demands. It will show them

that we earth people are capable of fighting back."

Over in England, at the pop where the newest brassy monaser stood with its yawning cavity wide open, great excitement prevailed. Opinions differed sharply as to the expediency of the contemplated move. Many denounced the proposition as foodbardy. The majority staunchly endorsed the idea as a brilliant gesture of defiance.

In the early morning hours a quantity of high explosives was hauled to the seene and carefully stowed away in the dimly lighted and strangely upholstered interior. Nearly a thousand pounds of detonating material was packed into the shell—nearly a thousand pounds of the most violently disruptive explosives known to chemists and ammunition manufactures.

Apparently the automatic device that had operated so swiftly in the case of the French convicts did not work on this occasion, although the assembled authorities were prepared for any eventuality. Nothing happened for an hour or more until the first rays of the rising sun fell on the projectile with a scindilitating flash of light. Then, snap!... The door shut, and off went the shell with its deadly carge.

Misgivings of the success of this mad gesture began to develop almost before the projectile was out of sight. The charge of explosives would undoubtedly cause some damage. But it certainly couldn't wipe out the terrible menace at one stroke. And what would be the inevitable result? A hail of death and destruction such as the earth had never witnessed before.

It came? . . . Not a hail of havoc and slaughter , . . just one single shot that descended near London. But

tel, that lone shell, like the others that had fallen in America oly and France, laid waste a large area, and brought instant for and violent death to hundreds.

A most startling discovery was made by one of the

group of chemists probling at the scene of the blast. First be found small quantities of the same yellow posder previously obtained at the spot where the initial explosive shell had dropped—a circumstance that was more or less to be expected. But far more assounding was the discovery of definite transc of chemical residues the discovery of definite transc of the mical residues the determine of the original explosive enzyme that had been shipped off into space two days are o.

seen the period of the period

The entire matter was as plain as day to everyone. It was just a subtle and yet very definite statement from the attackers that they were invulnerable—that nothing which the earth people could do in the way of opposition would be of any avail to them. Indeed a terrible situation to contemplate!

Another lapse of several days, with all the world

tense. Then a projectile came hurtling down to earth, falling with a huge splash into the North Sea near the mouth of the Kiel Canal. Nothing happened. No one could essay a guess as to whether it was another empty torpedo with its crisp message to send two chemists, or whether it was a dud—an explosive shell like the others, which had somehow failed to go off.

On the following day another such missile dropped into Lake Constance on the border between Germany and Switzerland. No damage . . . No new developments.

Then came the next one—the harassed populace had almost lost track, of its particular number in the steady stream of brassy projectiles that had been raining down phopped down against plant of the control of the phopped down against plant for entire of the raining that airport just outside of Berlin. The message it contained was now in German. It embodied the same peremptory demands as before—to send chemists—the Evidenty volcence of decipion would bring the carth Evidenty volcence of decipion would bring the carth

inhabitants nothing. Doctors Wolfgang and Schmidt, two young but very promising members of the chemistry staff at the University of Berlin, volunteered to step into the breech. Fired with a spirit of adventure and service, they offered to take their places in the projectile, and go off on a mission that would perhaps bring nozes and security to a sociely triol early.

bring peace and security to a sorely tried earth.

As in the case of the French convicts, the door of
the shell slammed close the very instant the German-chemists were inside, and in a few seconds the

man -chemists were inside, and in a few seconds the space vehicle was swallowed up into the night sky. The inevitable two-day interval dragged by, with the entire world tense and expectant. News would come momentarily—news that the hall of bayou from no-

where would cease—news that the two emissaries had succeeded in establishing amicable contact with the hostile people in space.

Another day wore on with no word or sign. Still another day. Now it was a week. What had happened out there on that strange world? Was the mission of the two indomitable German chemists to be fa-

vored with success? Was this to be the end of . . .? Crash ! . . . This time the jrojectile landed on the east shore of the Rhine near Mulheim, Clic! . . . The panel slid open! Out tumbled the limp bodies of the unfor-

tunate scientists! . . . Whizz . . . The empty shell was gone as suddenly as it had appeared.

Smash! . . . At almost the same instant an explosive missle came down in the German Black Forest, and laid waste a vast area. There were no casualties, but the destruction was nevertheless terrifying to behold.

WELL, this old earth is up against it now for sure!" Morosely Ray Fletcher scanned the morning paper with its graphic telephoto reproductions of the latest atrocities. "We send them what they want . . . and

look at the result!"

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Hale glanced up from his close perusal of the dramatic news accounts. He stroked his chin meditatively. "I've been giving this matter a lot of thought, Ray. And who hasn't? A certain idea has been developing in my mind, and it's getting to have more and more of a definite shape, the longer I mull over it. If there is anything to my notion, then it may go a long way to explain this entire string of strange bappenings since that first shell slithered into the ocean a number of weeks ago.

"What's your idea, Cliff ! . . . let's have it !" Fletcher was all attention.

"To start with, Ray," began Hale, "there's no question but that those projectiles come from some inhabited

planet or other heavenly body out in space." "Everybody will agree to that."

"And this race of beings, whatever they are, must be advanced to a state of scientific development which is far superior to our own. With their automatically operated space vehicles, their terrifically powerful explosives, their long-distance command of our earth languages, they certainly must be of the highest degree of intelligence."

"And," broke in Fletcher," "the uneanny way they have of dispatching their shell right to the spot that they're aiming at-and how about the automatic return voyage? They're a slick race, they are!"

"Hold on a minute, Ray-there's just the point I'm driving at-the aiming of those shells. Did you ever stop to consider whether they're really aiming at any given places in their shots-or are they just firing at random?"

"Well, Cliff, I wouldn't call it actually shooting at random. Look at how neatly they drop that same old message of theirs, worded in just the right language for each particular country-America, France, England, Germany. If that isn't good aim, then I'd like to know what is,"

"You're right, Ray, as far as that goes, but I think there's more to it than that. It's my idea that their aim ion't as good as it might be-as they themselves would like to have it. I believe there's a whole lot more tied up with this aiming propostion than you would suspect off-hand. Let's go over it from the very start:

"The first projectile that we have any record of fell into the ocean about fifty miles from New York We'll call that one the very first shell, although we ean't be definitely sure that there were no others that dropped into the sea unknown to anybody. The next one came down a little closer to land-off Coney Island. After that followed the Jersey projectile, with its message. At least three shots-and only one effective. Wouldn't that

show poor aim?" "Not entirely Cliff. Maybe you could do better shooting at a fly on a barn door at a range of ten miles,

eh? Anyway, how do you know just what they were trying to hit? Maybe the first few shots were only meant to be warnings-to get people interested and wondering-to sort of pave the way for the real one."

"That's possible, but it doesn't seem likely when you consider the rest of the story. The next shell dropped by the Adirondacks, hundreds of miles from where the others fell. My notion is that if their aim was all that it should have been, they would have had the explosive shell land in or near New York, and done some real damage-thank heaven that it did not?

"Then the scene changes to France, The first shell falls some distance from Paris. The murdered prisoners are returned miles away to the east. In retalliation, an explosive shell drops into the Channel without doing any damage. Another comes down and wrecks a village on the coast. It seems highly probable that they're aiming for Paris, but that their shooting is

erratic.

"The same situation is evident in the English and German shells. I can't believe that these shots were deliberately scattered and therefore wasted as some of them undoubtedly have been. It's more reasonable to assume that the mysterious people from space, although they possess a terriby potent weapon in this automatic vehicle, haven't quite got the thing down to perfection vet. It looks to me very much as though it gets beyond their control at times. That assumption would certainly explain the way these shells have been dropping all over the map.

Fletcher was buried in thought for a few moments. "Well, all right, Cliff. Suppose that those birds up there are having trouble with their aim, then where does that get us?

"My guess is, that their demand for terrestrial chemists is in some way tied up with their balky mechanism. Probably the operation of their projectiles depends on some chemical reaction or phenomenon which they haven't yet learned to control adequately. Maybe they have an idea that they could draft or kidnap some of our own scientific skill to lend them a hand in solving their problem."

"I see . . . and they're sore at us for not letting them have what they want," added Fletcher. "so they can give us a sample of what they are eapable of doing in the way of revenge? . . . Mm-m! . . . There may be something to it. But wait, Cliff! . . . Didn't those two German chemists go up as per instructions, and you

know what happened to them. How would you explain that, ch?" "I won't even try," laughed Hale. Remember that I'm only venturing a guess as to the meaning of this

entire puzzle. I may be all wrong about it," A lapse of silence, in which both young men re-

mained buried in thought "If only we had something definite to work on," remarked Fletcher. "If only our scientists could get into that shell, take it apart and see what makes it work. maybe we'd learn all about it. Maybe we could even duplicate the thing, improve on the mechanism, and give them a taste of their own medicine. But, darn it, the them a taste of their own medicine. But, darn it, the machinery comes to us all sealed up in that resistant alloy of theirs, and the shell is whisked back before we can make a real try at it."

"And when the thing days come to us." "Aded Male.

"And when the thing does come to stay," added Hale significantly, "it's blown into a million pieces and there's

nothing left to examine."

"Ch for one good look into that operating chamber," breathed Fletcher fervently. "I'd bet that you and I would find our college chemistry a mighty handy pack of information if we could tackle the secret of the driving machinery. That's all assuming, of course, that your hunch is correct."

"I think you're trying to josh me, Ray," laughed Hale, with a lalyful slap on the shoulder. "But what I'm going totl you now is no joshing—it's cold, hard fact. And it may upset you. Here goes: Pee just boolst made by my mind to loke to try in one of those

"You . . . what?"

"I mean it, Ray . . . a return trip to the land of this hostile race . . . and I don't care how I manage to do it . . . but I'm going the first chance I get."

"Cliff . . . you're crazy!"

"I was never more earnest in my life, Ray. The proposition appeals to me. The idea has been working

upon me until it's become an obsession."
"But the danger."
"There is no danger, as far as the trip over is con-

cerned. Didn't those Frenchmen and Germans get across safely?"

"Yes..., and how did they look when they came

back? ... Cliff, you're mad! ..."
"I'm willing to take my chances when I get there.
And as for getting back to earth, you know for a fact that the journey has been made at least ten times that the journey has been made at least ten times done? I tell you it's that greet devotures we've spoken of before ... and now, Ray, I'm going to pop a mighty important question on you. Are you soith me?

D HILADELPHIA . . .

Two very eager-eyed young men hopped off the flyer from New York and were presently racing to Fairmount Park on one of the speediest taxi trips ever

witnessed in the Quaker City.
"You have your automatic, haven't you, Ray?" inquired Cliff Hale, meantime feeling for his own.

quired Cliff Hale, meantime feeling for his own. His friend tapped his pocket significantly. "And the extra ammunition, too. For a long trip such as we expect to take, we're traveling pretty light, aren't we, Cliff?"

Hale only smiled in reply, and peered anxiously out of the cab window at the flying scenery of buildings, streets and endless traffic.

There certainly had not been very much of a wait following Fletcher's decision to cast his lot with his adventurous chum. In less than twenty-four hours after they had consummated their deathless pact, came the news. And what news!... The whole thing seemed almost to be made to order for them.

The new shell had landed practically in their very back yards—to be exact, on a lawn in Fairmount Park, Philadelphia. And to be sure, the inevitable message was there—in the same identical phrascology as the one delivered on the Jersey meadow. Apparently that infernal race on that distant world did not believe in giving up so soom—and were not inclined to waste words about it. Possibly they were settling down to a contest of attrition. Either the earth inhabitants will send them what they asked for, or will be blasted into eternity piecemeal by the returning torpedoes. En route to the scene of the newest visitation. Hale

and Fietcher agreed upon some sketchy prospans of action. They meant to take no one into their confidence, believing that absolute secreey was importative for the success of their wild wenture. For wild it was —both of them were prepared to admit that—wild, and fraught with the timotte hazard. They planned to execute their fold plan at one unden strete, and be offered to their dispersion seriand before the authorities of the three dispersion seriand before the authorities of the confidence of the plans, and discussions, questionings, bickerings would man oldey, fatal swains of precision

s time—perhaps defeat in their contemplated course of action.

The park was alive with excited thousands when the two young adventurers reached their destination. How they were going to get through that seeting multitude and past the rigid police cordon that had been thrown about the metallic monster was indeed a problem. They

possessed no such lucky credentials as was the case in the Jersey affair.

But fortune certainly amiled on them here at the very initial stage of their venture into the undown. A car with a "press" tage on its windshield was grinding its totteous passage along the narrow corridor leading to the spot where the projectile reared its nose to the sky. Why, held) ... weren't those two men in the motor the reporters with whom they had become so stage to the project of the project of the control very leading to the project of the control very leading to the project of the control very leading along toward the curred of things.

official-looking as befitted the circumstances.

Presently they reached the upright shell, with its

yawaing doorway revailing the same ghoutlies Illumiation, review even may, il noved daylight, and the same launtens upholdering as before. About this losscelled the same properties of the same properties. But Flade and Pietcher immediately observed among the assemted the same properties of the same properties. But Flade and Pietcher immediately observed among the assembly and the same properties and the same properties easily a definite course of procedure had been agreed upon, and the vigorous activity that was being carture of the same same properties. The same properties of the processing the same properties of the same properties of the properties of the same processing the processing the same properties.

"Well, what do you know about that, Ray!" whispered his chum. "The've decided to prevent this old

shell from flying back!"
"Prevent it? . . . How?"

"By classing it down to the ground. That engineer over yorder; just explained it to me. They've sent to Labebruit posthaste for a special metal nosepiese used to slap that they will be the support of the projectile and fasten it my chains running to the ground. You can see that gang of mem over there driving those long stell rods into the earth. They expect to have more than fifty around the shell. Then they'll another the reveal noise around the shell. Then they'll another the reveal noise. 688 piece tightly to these posts-and there you are! At

sunrise tomorrow the torpedo remains where it is . . ." "And we remain where we are, tool . . . Wonder

what they expect to accomplish hy this new stunt." "Lots . . . if it's done right. They can haul the thing down and make a real try at getting into the mechanism chamber. And if they only succeed in breaking in then the secret of what makes the shell operate wouldn't re-

main a secret very long," "Looks like our trip is all off, eh Cliff?"

"Not by a whole lot, Ray! There's no telling how long it will take them to get into the engine room-if they can get in at all. And we may expect a flock of explosive shells down on our heads in very short order if there is any delay in the return of the projectile.

If we don't . . A raucous medley of police sirens heralded the approach of the truck from Lakehurst. Under official motorcycle escort it bore the huge conical nosepiece for anchoring down the flighty visitor from the uncharted depths of space. A scaffolding had already been erected about the shell. A huge derrick now swung into action to hoist the heavy metal cone into position. The clanging of ponderous chains resounded, mingling with the steady pounding of pneumatic hammers as the long bars were being driven into the earth in a circle of steel that was steadily growing around the upright thing in the centre. It was apparent that the engineers in charge of the project were in grim earnest. That strangely glistening space-traveler was to travel no more-if they could help it.

Hale and Fletcher were watching these feverish

activities with deep apprehension "Our best bet, Ray," whispered Hale hoarsely, "is to go through with our original plans," Fletcher nodded

vigorously. "No good can come of this anchoring idea," continued Hale-"at least not at this stage of the game. I'm dead certain that we can accomplish something of more real value if we carry on just the way we worked it out . . . before it's too late. Are you all set, Ray?"

Again a mute nod from Fletcher, with a firm squeeze on Hale's arm to signify: "I'm with you!" "Then we'd better hurry ! . . . If they ever get those

chains fastened down, it's bye-bye trip! . . . The two young adventurers circled slowly about the structure. Already the massive metal cone was in place aloft, and a dozen heavy chains dangled from eyelets around its circumference. Several of these chains were now being stretched taut and clamped to the protruding

hars in the bristling circle of steel stumps. "Now!1 . . . Hale darted forward and clambered nimbly up the wooden framework, with Fletcher at his heels. Eiaculations of surprise1 . . . shouts of warning1 . . . commands | . . . threats | . . . The two intrepid youths heeded none of them. In a flash Hale was at the doorway. With a leap be was within the padded compartment. Turning, be seized his friend's outstretched arm and hauled him in alongside himself. Pale and tense they faced each other in the none too roomy chamber, while pandemonium reigned without. Workmen were dropping like flies from the nose plate and the scaffolding, while on the ground engineer and laborer, scientist and general, scurried off to get as far away from the shell as possible. For everyone was entirely familiar with the inevitable course of events from now on,

Scarcely were the two hardy young men inside of the projectile when, as every soul witnessing the dramatic scene well expected, the panel slid shut. That same sharp ouiver as once before, only with more convulsive violence, as the shell tugged at its flimsy moorings. Smash! . . . The monster, now galvanized into life,

tectered crazily and the flimsy wooden framework fell away in a tangle of ruins.

Crunch1... Snap!... The few chains that essayed to hold it to the ground tightened, then parted like threads of silk.

Thrown over from the perpendicular by the powerful reaction, the shell dipped violently. The conical plate was torn from its position up at the nose, and was flung with a resounding crash down upon the wreckage of scaffolding, derricks and assorted machinery below. The cries of warning had served to clear the immediate area an instant before the dis-

aster, so that there were no casualties. Freed now from all man-made restraints, the vehicle quickly righted itself, and ascended swiftly with its unexpected human cargo. A mere speck in the sky . . .

and now it was gone!

Within the flying projectile the young voyagers stood face to face with muscles taut, holding each other firmly by the hands, and bracing elbows and shoulders against the padded walls for support. A pale phosphorescent light bathed the chamber. They essayed a word or two of conversation but the loud and incesssant humming of the driving mechanism coming from overhead and beneath their feet rendered that ineffectual.

Hale knew that the speed of the space vehicle must be tremendous, yet there seemed to be no sensation of change of velocity following the first violent awaying and tugging before it righted itself. He wondered in a vague sort of way how the terrific acceleration would affect them. But dimly in his mind the thought circulated like a haunting ghost: "The others got there safely-the French convicts and the German chemists -they reached their destination apparently with no ill effects."

Presently he began to experience a queer numbness, first in his legs and arms, and then a slow progressive advance throughout the body. His limbs became feelingless and as beavy as lead. A strange, almost scared look in Fletcher's eyes told him that he too was undergoing those extraordinary bodily manifestations

With muscles and tendons drawn rigidly stiff by that inexorably spreading paralysis, they stared wide-eyed into each other's pale faces and wondered what was to come next. Now Hale began to feel a swimming sensation in his hrain, accompanied by a violent nausea. In his ears a steady buzzing swelled up to mighty roar that drowned out the drone of the vehicle mechanism. Try as he would, he was unable to shake off the fatal drowsiness that was gradually overpowering him. He felt his eyelids droop and his vision blur. His companion's face, a few inches in front of him, now appeared like a shapeless gray blotch at a vast distance. He struggled hard to fight off that advancing wave of unconsciousness, but it was at best a feeble effort. The cramped chamber, his chum in front of him, the eerie light, the soft upholstery-all began to swim in a sickening circle before his eyes. Faster and faster sped this giddy kaleidoscopic whirl-and then suddenly a vast, engulfing sea of darkness and oblivion. . . .

A SUDDEN flood of light that hurt the eyes . . . a gradual fading away of that overpowering rigidity . . in its place a flacted limpness . . . an unsteadiness in

the knees .

The harsb whirring overhead and underfoot was gone, the vehicle was now motiooless. Hale blinked at the unconfortable glare of light and painfully turned his bead to investigate. It came from without, through the open doorway of the projectile. He faced his companion again, to find him going through the stages of recovering consociousness.

"Ray ... Ray!" Hale seized him by both shoulders and shook him as vigorously as his own still feeble muscles and the narrow confines of their compartment would permit. "Wake up! ... uv're there!"

He poked his head out of the doorway and glanced hastily about. The shell was standing urpight in a grooved netallic framework, into which it had appartitly been designed to silder. They were not out in the standard of the standard of the standard of the but in some chamber, large in dimensions with a curved of that met the grooved framework far overhead. A large circular hole permitted the frame to continue to beyond. Hale saw familiar blue sky through this on beyond. Hale saw familiar blue sky through this

opening.
"What . . . what's up?" came a weak query from Fletcher.

"Come on!" returned Hale in a whisper. "This is the last stop! . . . Here's where we get off!" He swung out upon the crossed girders just within reach through the doorway, found his strength and assurance returning rapidly, and quickly clambered down to the floor. Fletcher followed as mimbly as he could,

and presently they stood together, gazing wonder-eyed upward and all about them.

Apparently their projectile had executed some kind of filo-over in its passage through space, because it had slid neatly into its supporting frame bottom first. This structure was obviously slaishood of the same yellowish metal of which the shell itself was made. Looking about them, they saw that all parts of the chamber—down while, colings, were also made of this foreign aloy. Up where the metallic wells must the curved root, a creating where the metallic wells must the curved root, as creating the collings, which is the same of the collings where the metallic sound so some down as stated plate of illumination, hatting the earlier room in a flood of vellowish light.

"Nobody to meet us at the station," was Fletcher's dry comment, although his hand, held in readiness close to the pocket containing his automatic, somewhat belied

his levity.

They glanced cautiously about the chamber. Besides themselves, there was not a living thing visible—human or otherwise.

"I guess they don't expect us," whispered Hale.

They tip-tood warily around the shell standing wedged in its supporting frame. The walls of the room were smooth and unbroken, except for some this, longitudinal crevices which might or might not denote sliding panels similar to that on the projectile. Suddenly Hale turned to Fletcher with a low exclam-

Let's take a look around the place."

ation. He inhaled deeply several times.
"It didn't occur to me before," he said, "but look! our breathing is perfectly normal—just like it is on earth. That means that this planet, or whatever it is, has about the same kind of atmosphere. That's lucky

for us. And another thing. Ray!... weight... gravitation... you don't feet any extra heaviness or lightcoss, do you? Well theo there's another circumstance in which this strange world we're on resembles our old earth."

"Never gave those matters any thought," whispered Fletcher. They continued their explorations. "Gosh," he added, "where do you think everybody is right now? Wouldn't you naturally suppose that they'd have a reception committee on hand to welcome us?" Again Hale stopped suddenly in his tracks, a puzzled

look in his eyes. His brow furrowed.

"Gee, I shouldn't be a bit surprised," he muttered, half to himself, "If that isn't the explanation after

аН . . .

marrow opening in the wall which they had not observed from their previous position on the other side of the chamber. It led off at an angle into a dimly lighted passageway. A swift exchange of meaningful glances served to crystallize their course of action in

an instant.

"Come on " breathed Hale. He stepped through the opening. Fletcher was right behind him. They had not given a thought, at the outset of their mad adventised to the control of their mad adventised, with any summer of carts language, short that the finearms. So that they found themselves somewhat art ad disadvantage here in the semidadrenes of this control dor. But there was sufficient light to enable them try or the control of the control

Hale soon became conscious of a low, throbbing sound coming from behind the metallic walls on both sides of the passageway. With each chary step forward, the vibration became louder. Fletcher now

showed that he was aware of it too.

"Some kind of machinery," he ventured. "Maybe their power-house or laboratory," Hale nodded.
They had now progressed about two hundred feet along the passage. Glancing back, Hale could see the doorway an oblong of yellow light. Just at that instant he observed a shadow filt across the area of

stant he observed a shadow flit across the area of illumination—then another and still a third. He gripped his chum's arm and pointed back. Nothing to see now, save the lighted doorway and the bulk

of the shell in its metal frame beyond.

Then a sudden commotion in the projectile chamber.

Shouts, shrill cries, a confused hubbub of agitated

Shouts, shrill cries, a confused hubbub of agitated voices, and the patter as of many feet.

"The reception committee!" whispered Fletcher...

"A little late . . . but anxious to meet us just the same! . . . Shall we go back and show ourselves?"
"No! . . . wait?" was Hale's hushed reply. "We've no idea how they'd receive us . . . Better if we keep out

of sight for the present . . . if that's at all possible!" The two adventurers in this strange realm crouched in the semidarkness of the passageway, their guns beld in readiness, their eyes on the opening through

which they had just come.

A few breathless moments, and then a form shot through the lighted doorway and raced down the corridor toward them-another was at his heels-more crowded through and followed the leader precipitously. "They've spotted us!" cried Hale, springing up lithely, gun in hand, "Let's run for it, Cliff . . . but no

shooting . . . yet ?" The creature in the van was now halfway down the passage. In a fleeting instant Hale sized him up-in form, undeniably human, short, thick-set, with features that resembled the Oriental-high cheekbones, slanting eyes, a leering mouth. He bore down upon them wav-

ing his arms and emitting harsh, guttural noises from bis throat. The two young soldiers of fortune wheeled swiftly

and sped down the passageway. Behind them rose an increased confusion of many feet and many hoarse voices raised in noisy tumult. Hale and Fletcher dashed on, not quite clear in their own minds as to just where they were to seek refuge . . . or from whom, They were only obeying the natural instinct to run.

Suddenly Hale stopped dead in his tracks. A sharp cry came from directly in front of them. Apparently out of nowhere there materialized another of the same tribe, right in their path. He came forward menacingly, shoulders hunched, head low, beady almondeyes glittering in the half light. A small device was clutched in one hand-evidently some kind of weapon. Behind this creature two others loomed with equal menace.

Surrounded! . . . Behind, an advancing horde . . ahead, more of the evil clan. No use delaying now 1 . . . Action! . . .

"Let 'em have it!" shouted Hale, punctuating bis cry with a shot that reverberated like a clash of thunder in the low corridor. The advancing creature, now almost upon him, uttered a shriek and crumpled forward. Once more the gun spoke. The second figure folded up with a low moan, his weapon clattering harshly to the metallic floor.

At almost the same instant Fletcher, who had whirled about at the rapidly approaching mob at their heels, fired point blank into the dense mass, pulling the trigger as fast as he could work his finger. Cries of pain mingled with shots of chagrin and defiance. The crowd of beings, momentarily halted by the sbeer audacity of the attack, recovered in a few seconds. They swept over their fallen comrades with a roar of vengeance. One look in the other direction now filled the two lone combatants with dismay. A dozen new comers had sprung up from some mysterious source and were bearing down upon them.

A few more scattered shots from the guns-then the two were engulfed as by a tidal wave. And with overwhelming suddenness there also came that same enervating paralysis that had gripped their bodies on the trip in the projectile. As if bound by cords of steel, their hands and legs became rigid and motionless. Muscular movement became impossible, but mental activity was unimpaired. Although petrified in body, they were, strangely enough, keenly conscious of everything about them. The sense of sight was apparently not affected by the queer paralysis, but their powers of speech and bearing were mysteriously gone. The two companions in distress exchanged glances that mirrored bewilderment mingled with bope and dauntless de

"This is a fine mess we're in!" the glances said. "Wonder how we're going to get out . . . but we will,

somehow! . . . no worry about that! . . . " A hurried consultation was held among several of

the mob who appeared to be persons in authority. Presently the two rigid prisoners were hoisted bodily upon the shoulders of several of their captors and carried down to the end of the corridor, through a doorway, and down several flights of stairs, finally being deposited in a small cell with more force, they thought, than the circumstances of the occasion warranted. The crowd departed up the stairs. One leering Oriental face lingered for a moment or two at the doorway, while a contrivance that he held in his hand was directed at them as though it were a hand flashlight. In an instant, he was gone, not even bothering to close the panel that served as a door to the cell.

Hale and Pletcher were left lying where they had been cast on the bare floor, paralyzed hand and foot,

deaf and speechless. No . . . not deaf, for Hale could hear the steps of the last to leave retreating up the stairway and through the passageway above. Could the final queer manipulation of this individual have been responsible for the restoration of hearing? . . . then perhaps . . .?

"Hello! . . . Hello Ray! . . . Can you hear me? Can you talk?"

"Hello yourself!" came back rather weakly from the rigid figure beside him. "Gosh-I'm feeling funny Cliff! . . . can't move a muscle of my body! . . . And how are you?"

"Same," retorted Hale. "They've got us just where they want us." 'And now, what?'

'Search me, Cliff! We've just got to wait and see," Fletcher switched to another topic, "Say, Cliff . . . aren't they queer looking birds?"

"Yes, queer, but not what I had thought we would see. They certainly don't look like creatures that you'd expect to encounter on a distant world. They look to me like some kind of Mongolians or other Asiatic types."

"Yes, so they do. Chinese, I'd take them for "There are only two reasonable explanations in no mind as to the presence of these Orientals here. The first is that this kind of creature is the normal native type to be found on this planet. The other is that the race of people which dwells here has, in some way, made a previous and unknown raid on the earth, probably somewhere in Asia, and has captured and enslaved

a number of the natives. "That's very possible." "Or . . . there's even a third possibility." Hale chuckled to himself at the mere thought. "There's even

a possibility. Ray, that we haven't even left the earth!" "That we haven't left . . . ? . . . Why, Cliff, that's ridiculous!"

"It's possible that we merely traveled up a certain distance and then came down again somewhere on earth." "Rubbish! . . . I don't believe it!"

"HE two friends must have slept. They awoke al-I most at the identical moment, to find themselves lying side by side on the floor in the same positions as before. Presently a step was heard at the entrance. and an Oriental appeared suddenly with a tray of food, which he placed on the floor near them. He was gone

in a flash.

"Now, how in thunder," began Fletcher, ". . . why darn it, I can move!" He waved his arms and sat up with difficulty. Hale followed suit. To their great astonishment, they found themselves capable of motion in the upper half of their bodies. But from the waist down they were as rigid as ever.

"That's what I call neat," vouchsafed Hale, "These beggars have a way of tying you up all at once or piecemeal." Fletcher nodded in agreement, but was too busy attacking the tray of food to venture a word of reply.

Hale promptly joined him in the assault. He realized dimly that they had not eaten since leaving Fairmount Park. Was it only a few hours ago? Was it vesterday?

. . . there was no way of telling . . . it seemed like years.

While eating, they discussed their strange predicament in subdued whispers. As to where they were, who their captors might be, they had only some wild guesses. But what their mission was-that was clear to themto learn the reasons for an unprovoked bombardment of peace-loving people-to effect a cessation of the attack, by persuasion, by diplomacy, by force if necessary-to return to their starting place as best they could. A rather large order, they agreed between themselves, but not an impossible one. Deprived of their weapons at the very start, they knew that they would have to

depend upon their wits to get them through. The shuffling of many feet now came to them through the open doorway. Two Mongolians entered. Outside in the corridor the rest of the group waited. The new visitors, evidently persons with some authority, proceeded to adjust a portable mechanism so as to focus on the prisoners seated on the floor. The two friends promptly experienced a reversal of the paralyzing force, which restored their stiffened legs to normal use, but gripped the upper portion of the trunk as in a steel

The captives were assisted to their feet and led out of the cell where their escort was awaiting them. "Bet we're being taken to the Big Guy himself," whispered Fletcher.

"Either that . . . or else out to face a firing squad," returned Hale grimly.

The party descended endless flights of metallic steps, and tramped through a long wide tunnel that appeared to be an underground passageway. Everywhere was the same smooth brassy construction now so familiar to Hale and Pletcher. This whole new world seemed to

be constructed of one material. At the end of the tunnel they entered a large compartment that the two friends immediately recognized as an elevator, and were whisked upward with a speed that almost took their breath away. Out into another corridor, higher and wider than the other, and at the end of that the party halted. The two leaders motioned the prisoners forward. A low buzz sounded somewhere behind the metal wall that faced them. An answering buzz sounded close at hand. The blank wall divided before them and they were led into a large chamber. Rugs, hangings, all the furnishings about the room gave the air of Oriental splendor that would be expected in

the palace of an Asiatic potentate. But in the centre of the chamber stood a single piece of furniture that certainly had about it the aura of the Occident-an ordinary American office desk-made of that ubiquitous yel-

low metal, but otherwise unmistakable. At the desk, and facing them, sat a solitary figure. The young men stepped forward a few paces and then stopped. At a wave from the one at the desk the escorting group bowed obsequiously and retreated from the chamber. A pair of beady brown eyes scrutinized them from head to foot. The prisoners returned the scrutiny fearlessly. They observed a Mongolian type similar to those they had already seen. Even though he was seated. they could tell that he was of short stature, thick set

and stodgy. His face gave the appearance of breadth . . . wide, with ears standing out grotesquely from the head-a thick nose, somewhat depressed at the roota broad mouth, with full lips-cheek bones high. A coarse hand stroked a sparse beard, Eyes nar-

rowed to mere slits, and thick lips widened to a grin, exposing rows of strong irregular teeth, Sot . . . you have come! I was not expecting you so soon . . . but you are welcome nevertheless." Only

a mere suggestion of foreign accent was evident in his English. He continued his minute scrutiny. Hale was about to burst forth with some pert retort, but held his tongue

for the moment. That could wait until later. Fletcher was silent too, with his eye riveted to the figure before them. "My young friends," again began the Oriental, "do

you know where you are? "Somewhere out in space," replied Hale, "-some-

where on another world, millions of miles away from the earth." Their captor burst into a harsh laugh that echoed like the rolling of thunder through the room. "That's what I thought," he croaked. "Wouldn't it surprise you, my brave lads, if I were to tell you that you are still on

earth-that you have never been more than five miles from its surface?" The captives exchanged significant glances. "Not out in space?" hlurted Fletcher. "Then where

in blazes are we?" "You are in Lhasa-in 'Forbidden Lhasa'-the walled city of Tibet, in the heart of Asial" The stentorian

accents came like the booming of cannon to the ears of the astonished pair. They remained speechless, "Wait-let me make you comfortable," said the Oriental hastily, "then I can tell you the whole story."

He busied himself for a moment with a device at the side of his desk. It was only then that the adventuring youths realized that they had been standing there all this while with the upper part of their body held rigid in the powerful grip of the strange paralysis. Gradually they began to feel the rigidity melt away.

Now it was gone-only a faint weakness, a sort of lassitude throughout the body, remained as a relic of the mysterious binding force. The Asiatic motioned them to a wide, curiously carved bench close at hand, and they sank down upon it wearily. "Now. Mr .-- Mr .-- !" began Hale.

"Lun-Dhag," volunteered the Oriental, with a slight inclination of the massive head and broad shoulders, as

though in a semblance of a bow. "Mr. Lun-Dhag, we came here in your shell car

to . . ."

came, posing as chemists—with the intention of snooping around and interfering with my plans."

"Yes, it's true!" interjected Fletcher hotly. "You sed down on us your infernal shells; you bomb us, kill our people, destroy our property—and for what? That's what we're here for—to find out why this sudden and upprovoked warfare, and to stop it, if that's humanly

possible." After good property of the property of the year of the year of your strong youthful valorable of you. Yes, I shall admit the runt of must be of year of your strong you will be the year. Yes, I shall gain the runt of must be will be year of your year. Yes you will not must be will be you will be

Suddenly his glance softened. His almond eyes narrowed, and his lips widened into a grin.
"I repeat," he continued softly, "I like your splendid courage in coming on such a dangerous miss on—hopeless though it is. You are not, by any means, the expert

chemical brains that I expected, but you have other virtues—that I can see. Perhaps I can interest you in a proposition..."

Lun-Dhag paused significantly and scrutinized the

Lun-17nag paused significantly and scrutinized riccs of the two before him. They remained silent, stolid. Hale could almost guess what was coming. A glance full of hidden meaning passed between the friends. Their captor went on:

friends. Their captor went on:
"I need young men like you in my organization—men
who don't know the meaning of fear—men with brains
and enterprise. My offer is an unusual one, I know—
but it is attractive. If you accept, then your rewards
are great—rewards that are material—as well as other-

"And if we don't accept?" inquired Hale.

A steely gleam flashed from Lun-Dhag's small eyes.

of evil power that faced them

His tips closed to a thin grim line. A clenched fist came down firmly on the shiny metallic surface of the desk. "You know what happened to the others," he said in a low tone that was pregnant with meaning, "—the four who came before you, and whom I found used.

for my needs!"

A defiant retort crowded to Hale's lips, but he choked
is back. Eletcher sat staring wide-eved at the figure

"However," added Lun-Dhag, "I do not expect you to come to a decision at this very moment. You may think about the matter for a time. Talk it over between overselves—make up your minds whether or not you will accept my offer. Of course, my friends, I have yier any northing but the barest fides of what I expect lone the whole story—my plan of organization—my mains and aspirations—your part in the scheme. If you

decide to reject my offer, then. . ." Lun-Dhag grinned knowingly. He touched a button before him, and a distant buzz was heard. Presently the door through which they had entered slid silently open, and the two guards entered. Again Hale and Fletcher felt their arms and torsos encased in a relentless mold of steel. Without another word being uttered, they were led through the same succession of stairways, passages, and tunnels back to their original cell.

TIBET!... Asia!..." Fletcher paced the floor with agitation. "Of all the doggone places!... and we thought we were on some distant planet or some-

and we mought we were on some clustent planet or some thing!" Hale stood near one corner of the room in an attitude of reflection. They were now relieved entirely of the overpowering paralysis, although the guards, before leaving them to their meditation and debate, had dis-

creetly fastened the door from without. Evidently Lun-Dhag was taking no chances.
"Tibet or Mars!.., it makes no difference," remarked Hale. "We're in a jam, and we've got to get

out of it—somehow."

The two friends fell to discussing their prolicament in low whispers. They were fully aware that Lun-Dlag was too adroit a scheme to hope for complete surreider from them. They knew that at this very moment their every action and movement was being watched by use sent eyes—their words probably being recorded by use and analyzed by the masterful devices of this insidious foe of mankind. Nevertheless they discussed the situation as fully as possible in bashed tones.

"If we fight back," said Hale, "then it's all up with us—we'll be returned to where we came from . . . you know how! If we agree to go through with this fellow's proposition, then we'll be comparatively safe—for a

while, at least, and while there's life . . ."

Fletcher nodded.

FET me congratulate you, young men" Lun-Dhag arose from behind his desk to his full five feet and four inches of stubbiness, and strode or rather waddled toward them eagerly. His short spindly legs could barely support his bulky body. "You have demonstrated good judgment-far better judgment than those two stubborn German chemists. Fine technical experts they were, but they turned a deaf ear to my offer And so ...!" A significant gesture of the hand spoke volumes. "And as for those French convicts you shipped me-brave fellows but utterly useless to my scheme. You lads, however, have common sense, initiative, leadership-qualities that I admire most. I shall assign you to posts of responsibility in Lhasa-after your preliminary period of training and instruction. You shall become familiar with the doctrines of Lamaism-the sacred religion of Tibet. You shall know to the full extent of our advances in science and technology. When our planned conquest is completed, you shall reap the benefits, along with others who are now striving and sacrificing for the common cause. But remember, I do not trust you-yet. You are still aliens, deserters from our enemy. In your minds may be thoughts and plans of evil against me and my people. Until I am sure that you are whole-heartedly with us, you shall be under careful watch every hour of the day and night. Perfidy will avail you nothing. Treachery will merit but one reward!"

Hale and Fletcher listened to the Asiatie lord in silence. If anything was in their mind, not a trace of it was reflected on their expressionless faces. Lun-Diag flashed a signal to the waiting guard without. A few brief directions and the two adventurers were led away. For the first time since their arrival here they found

themselves out in the open. The escorting group of Tibetans conducted them out of the executive headquarters into a large open quadrangle bounded by rows of tall, gloomy-looking buildings. The area was alive with people, all apparently in a high state of activity, all bent on the completion of some appointed task or errand. Small and large vehicles, evidently automatic and selfpropelling, coursed through the square, some empty, others bearing one or more passengers. Here the two friends were separated. Each was bundled into a different vehicle, together with a contingent of guarding Orientals. The conveyances started off in divergent directions, leaving the quadrangle by two of the narrow streets that radiated from the administration building. "Well it's lucky they've got us bunking together at

least." Fletcher sank down on one of the couches in the room and reached for a cigarette on the table nearby. "Hm-ml . . . real Turkish brand! . . . Old man Lun-

Dhag is sure kind to us."

He inhaled the fragrant smoke deeply. "This first day has been a pretty tough one," he ventured, "and yet it's been quite interesting. They've got me in some kind of munition plant out on the outskirts of the city. It has to do with manufacturing of explosives. And I can recognize one product that they're turning out almost by the ton-it's that infernal stuff they used to blow holes in the map of America and Europe. They call it khatonite. Why, darn 'em, I feel like . . . !"

Hale held up a warning finger, and shot a swift glance about the room. Fletcher caught the suggestion, and closed up

"Well, Ray," remarked Hale, "I'm at a spot that's almost as interesting as yours. They put me in just the place I myself would have chosen, had they given me a chance to pick. I'm in the chief chemical laboratory of this outfit, and I've learned a lot-even though this is the first day on the job. There's one thing that I know is going to appeal to me a great deal-it's the work on that mysterious mechanism that drives and controls their projectiles. This laboratory has full charge of turning out these devices-and it's just as I had guessed-the underlying idea of the whole thing is some queer chemical action or substance. I'm anxious to learn all about itand there's a good chance that I'm going to. The personnel is all native Tibetan, of course, but some of those in authority are somewhat familiar with English. With the help of these fellows. I expect to get on rapidly with my education."

A BOUT a week had passed, and the two alien visitors to Lhasa were beginning to become acclimated. Their work was congenial, their surroundings pleasant. During leisure hours they were permitted apparently free access to all parts of the "Forbidden City" and to the technical works about the environs. They were allowed to ask any questions they desired about various phases of this astonishing development in Central Asia. All replies were courteous to the extreme. It appeared that Lun-Dhag had paved the way for their complete acceptance into the current scheme of things. Although they did not see the high commander at all since that interview in his chamber, Hale and Fletcher could observe his influence wherever they chanced to be.

"Have you learned anything around your explosives plant about how things stand?" asked Hale one evening They had just finished a delectable repast, and the Tibetan servant or orderly had just disappeared with the remains. They were seated near the open window, look ing out upon the twinkling lights of the city lying stretched out into the valley below. Off to the left towered the massive bluff that was crowned by the impregnable palace of the "Dalai Lama"-the fountainhead of the Tibetan religion.

"To tell you the truth, Cliff," replied Fletcher, "I haven't been able to get on to very much. All I could make out is that this fellow, Lun-Dhag, is a wizard to the nth degree. He's organized this race of people for some evil purpose or other, and everything that's being done around here is aimed in that general direction However, I haven't been able to get the whole story. Real authentic information is hard to dig out of these natives. Only one or two that I've met up at the plant are able or willing to tell me anything; maybe if they knew more than a smattering of English, they could make themselves understandable. But my idea is that none of them know anything-that is, no one but the few that are really in authority. The rest just obey orders without knowing what it's all about. And now how about you. Cliff? What have you been able to make

of it over on your job?"

"I must admit," laughed Hale, "that I've been a great deal more fortunate than you in picking up information. There are a few intelligent native scientists over in the chemical works, and they aren't at all hesitant in answering questions-even in volunteering data on their own hook. Evidently they are under instructions from Lun-Dhag to go the limit with their information. I've kept my eyes open too, not only on my job, but all through the neighborhood of the city during our comings and goings. And here is the gist of what I have been able to learn:

"Lun-Dbag is a wizard-a keen, shrewd scientific

genius with a remarkable capacity for inventiveness and original discovery. In ancestry, he is part Mongolian, part Tibetan. He has been educated in some of the leading universities and technical schools of America and Europe. Coming back to Asia after his period of scientific training in the West, he plunged whole-heartedly into the task of building up this God-forsaken sector of the globe. And bow did he do it? By delying first into the hard rocky soil of this barren plateau and locating undreamed-of stores of mineral wealth. He discovered vast deposits of metal ores, chemical substances, and

other valuable minerals, some of which are exceedingly rare in other parts of the world. And he developed sources of tremendous, almost limitless power from the chemical materials that he dug up out of the ground." "Lun-Dhag set to work with superhuman will and energy. Here within the walls of the ancient city of Lhasa.

as well as all around it, he established a huge beehive of activity, an elaborate base of operations. He schooled a few of his trusted friends and followers for positions as lieutenants in his organization. He instituted a campaign of education and training among the ignorant and superstitious natives of this region, and made willing slaves of them. And under the leadership of Lun-Dhag, this small area is the centre of the most concentrated and phenomenal advance in scientific achievement ever seen anywhere in the entire world."

"When I . . ." breathed Fletcher in the utmost wonder,

both at his indefatigable friend, and at the amazing array of facts that he was presenting. "I'll say you've been picking things up during this last week! What a story thor is! . . . But Cliff, I don't understand how be wad able to do all this without some news of it reaching the outside world. Surely the development of this whost project must have taken years, and yet not a word of

it seems to have leaked out."

"Dat's casy. This land of Thet is right in the middle of nowhere. It's a harren, monitones platear region, sparsely populated, rarely, if ever, vaised by outsiders. It's it's a myercine country, rated by the religious superis a revisited to the religious superis a revisited by foreigners, because of the dangerous finasections of its inhabitants. So that the country is like an isolated little world, apart from the rest of the inhabited golde. That explains why Lam-Diag and his co-workers golde. That explains why Lam-Diag and his co-workers of the country is the country in the country is the country of the country of the country is the country of the country is the sightest this of it ever getting one of this limited streak." That whark is the idea of this whole blammed projects

Cliff? What has this bird, Lun-Dhag, got up his sleeve? Did you find out anything about that?"
"Plenty!" retorted Hale, "Lun-Dhag is aiming at

"Plenty!" retorted Hale. "Lun-Dhag is aiming at world domination! Think of it, Ray, world domination! Mattery over the entire civilized model?"

"All by himself?"

"No. Lun-Dhag is the central figure in this scheme,

but his idea is to effect a sort of "long-distance" conquest of the rest of the earth by the forces of Lamaison situated here in Tibet. Coupled with his superhuman power as a scientist, he is a deeply religious fanatic, a devout believer in this nacient faith, which is a quere combination of Buddhism, sorcery and certain primitive Indian beliefs."

"A 'long distance' conquest, you say?"

"Yes . . . and that brings me to the ace card of Lun-Dhay and his forces of Lamaism. It's the projectile This device of his is the very last word in ingenuity and scientific skill. First there is this allow of which the shell itself is constructed-they call this product thokal. As you've already noticed, practically everything around here is made of this same metallic, substance. I haven't been given a chance to learn the composition of thek-al but you know how nearly indestructible it is. Then there's the driving mechanism that's housed in the nose and the tail of the projectile. And it's just as I suspected-it depends on some intricate chemical reaction that I don't understand yet. You remember Ray what I told you some time ago. I had the idea all along that the driving mechanism was based on some complicated chemical process. And my hunch seems to be working the right way."

"You mean that the machinery doesn't always operate correctly, and so makes the shell behave queerly?"

"Exactly! Lun-Dug and his associator, righter by a cardiate at after a long protess of interact channial recording to after a long protess of interact channial returned point on exist a stretile speed, and these to make in take off at any desired moment and returns to its staries that the stretile speed, and there is make in taking within his latter correct quantify of some payterious chemical compound, they furnish the sholl with which will be also the correct quantific and the first off which will be also the correct quantification, allow for a sensing point. But they don't know all that the'pd ills on lowe shout this chemical reaction, so that at these it gets beyond their control. That explains why they have had so much trouble in placing their shells at just the spots at which they were aiming. It also makes clear why they haven't always succeeded in making the shell return stelly. Or, if it door return, to make it do so at just the correct speed and at exactly the correct time that they had calculated in advance."

"Why, Cliff, that's just the way you figured the entire matter out long before we took off on this trip. Are you sure that you have the real done on this whole thing?"

"Positive, Ray, Those native scientists over at the laboratory are clever chaps-and mighty willing to tell me what they know about the shell and its operation. They aren't at all backward in giving me all the information that I want-or rather all that they've got. Of course. I wanted to know why the mechanism doesn't always work according to schedule, but they threw up their hands at it-they just didn't know. Lun-Dhag has been working for years to perfect this projectile so that it would do what he wanted it to do a bundred per cent of the time. With his inexhaustible supply of raw materials, his trained technical assistants, and his vast reserve of practically slave labor, he has been able to turn out hundreds of shells. These he has tested under all conditions, firing them over various ranges, observing them in action, noting their speed, where they landed how they returned and everything else about them. Finally, in spite of all efforts, Lun-Dhag had to admit that his net idea wasn't as much of a red-hot success as

"And so, Cliff, the rest of the story must also be just as you guessed it before—I mean their demands for

American and European chemists."

he should have liked it to be."

"That's right. Lun-Dhag, in desperation at the way be was stumped by the accentric action of his projectile, hit upon a bold stroke—to enlist by force the services of Western scientists to help in inroning out the wrindles in his shell mechanism. At the same time he saw an opportunity to set his pet plan into operation, that is, his scheme for world domination. The campaign had to with one store," time, and now the coal felit two briefs with one store."

"How did he figure doing that?"

"By fring his shells with those messages to send chemists, he could throw a large sear into the people of the West, and so pave the way for the real campaign of world conopents. He thought that if he tried long enough, and made things sufficiently unpleasant for the Western countries, they would accude to his demands for technical assistance. Then, after he had ernoficiated the irregularities of his projectiles with the aid of these Americans and European chemists, he would be ready to lumch his way of comport in real earment."

"I wonder how Lun-Dhag was able to check up on the exact effect of each shell when it landed in America, England, France, or wherever it came down."

"Easily enough, Ray. He has a trained corps of radio experts who are constantly litering in on short-wave channels for news from the world over. Many shells, or were therefore, not reported. These that landed at, or near their intended destination, created plenty of excitement—you know that too well. It was a comparatively simple matter for Lan-Dhag to get accurate data, so constructions of the contract of the contract of the contract offers of each one of the oblig declarats, as to the cases of force of each one of the oblig declarats.

"So that he must have known of the general impres-

sion that developed from the time the first one landed

I mean the belief that these shells were visitors from some distant world out in space." "To be sure he did, and this fitted in nicely with his entire scheme. The chief idea of this Tibetan dictator is to secure world control for himself and his clique, and still remain hidden away in his own mysterious country. That's what I mean by 'long distance' conquest. You see, these Tibetans are forbidden by their religion to mingle with the outside world, for that would contaminate them. By means of these trick projectiles, Lun-Dhag planned to bombard any portion of the earth at will. If the world believed that they were being attacked from somewhere in space, all the better for his plans. No one would dream of bunting for the source of trouble so close at hand as the continent of Asia. He could send his demands for the best in Western scientific skill, for the finest of treasures, if he desired them, for hostages And his reversible projectile would return to Tibet with its cargo in just as slick a manner as you please. He need not risk either his own neck or the life of a single native in this strange, one-sided war. He could wipe out a city at one stroke, terrorize an entire nation-in fact the whole civilized world-as he has succeeded in doing so well. And yet, with all that, he could remain here in absolute security, impregnable to attack, because not a soul would even dream that the source of all the fireworks was located right here in this corner of the globe. Lun-Dhag and his people may be barred by their Lama religion from mingling with the rest of humanity, but they could nevertheless maintain a ruling hand of steel even from a distance by means of their damnable shells. A mighty neat scheme, I'd call it. And one that could very easily work out, to the utter ruin of the civilized world."

"But, if Lun-Dhag's religion prohibits him or the rest of the Tibetans from coming in contact with outsiders, how do you explain his readiness to accept Western chemists to help out in perfecting the shell mechanism? And why is he so willing to enlist you and me in his organization? Wouldn't he become defiled by associating

with us?" "Well, I've been thinking about that, Ray. Lun-Dhag undoubtedly realizes that a grave emergency exists. If he cannot get his projectile device to work accurately, then his scheme for Tibetan control of the world Isn't worth a darn. My theory is that he's making certain allowances for just this one time. He's probably had it all worked out to the last detail. If he received the chemists that he demanded, he would take full advantage of all the skill they could furnish him in this trying emergency. Then, after their job was completed, and there was no further use for their technical genius, and no further need for their defiling personal presence, why then . . . you can imagine the rest."

HALE was positive that he and his chum were under constant and close scrutiny. He knew that every action of theirs was being watched, and every word of conversation apprehended. It was useless to expect privacy, however much it might appear that they were being given free and untrammeled rein in their new existence in Lhasa. It was too much to expect from Lun-Dhag that he would place implicit trust in two youthful strangers from a race which be was at the very moment aiming to conquer and destroy. This unscrupulous genius had undoubtedly taken means and installed devices to insure

an incessant surveillance of the two Americans, twentyfour hours a day.

Confident that such was the case. Hale might have been more cautious in his actions and more judicious in his talks with Fletcher. But he took no pains to mince his words. During the lengthy discourse together, in which Hale opened the eyes of his friend to the full significance of Lun-Dhag's drastic schemes for world conquest, as well as in all subsequent conversations along the same lines, Hale never hesitated to call a spade a spade. He was fully aware that Lun-Dhag had made it easy for him to gain all the information that he now had regarding the Tibetan plot. He knew that the Asiatic chieftain was anxious that the young adventurers should be told all. So that he had no fear about discussing the entire

matter rather freely with Fletcher. But Hale was absorbing more than Lun-Dhag was giving him credit for. In the projectile plants, the chemical works, the metallurgical establishment, and in the firing and receiving chambers Hale kept his eyes open and his senses alert. And some of the things he learned he did not confide to Fletcher, bosom friend though he was. Those details he stowed away carefully in his mind, not even trusting to written notes. When the time came, he was confident that these mental data would stand him in good stead. Meantime, although he dared not breathe a word of those matters to Fletcher, there grew up a mute and mutual understanding, whose language was nothing more than an occasional significant glance. They realized their mission-they were fully conscious of the weight of responsibility they had assumed when they launched forth in the Tibetan projectile that memorable night in Fairmount Park. And they were both motivated by a grim determination to see the adventure through just as they had planned it. Even more momentous was the task now than they had realized at the start. In the light of their present knowledge, matters were beginning to take a pretty crucial turn for the safety and welfare of the entire civilized

Activity in the projectile plants was going on with unabated zeal. Despite the erratic behavior of these missiles, the factories kept on turning them out by the wholesale. Many of them were tested out on special proving grounds near the city, and Hale had a good opportunity of studying the manner in which these infernal machines behaved, or misbehaved. Meantime Lun-Dhag continued to dispatch projectiles to America and Europe at regular intervals. They contained the same urgent demands for chemists. Apparently he was not at all ready to give up.

The two adventurers from the west had an ample opportunity of following these shells in their flight through the medium of radio news reports that recounted the arrival of each new missile. It was astonishing to them how many of the projectiles never reached their mark. One afternoon, in the space of several hours, no less than thirty-five huge sbells were fired, each identical with the rest, each containing the self-same message in Italian, all destined for Rome. The reports that came in early in the evening told of the fall of three of them, two in the Mediterranean, and one on the island of Sicily. Whether the remainder fell unnoticed into the ocean or whether they became diverted from their course and left the gravitational field of the earth forever, neither Lun-Dhag nor the most astute of his scientists had any means of determining. Here was certainly a powerful engine of destruction and conquest, titanic in force and capabilities, but erratic and uncertain to the very ex-

treme. A matter which had been puzzling both young men was cleared up on the very first occasion of their visit to the firing and receiving ground. Although the area was dotted with numerous dome-shaped buildings, each of which contained the mechanism for launching a single shell, their attention was concentrated on only one of them. There seemed to be a greater stir of activity about this particular building than was to be observed about any of the others. Hale went off to make inquiries from a Tibetan worker whom be recognized as an assistant in the central chemical works. He returned immediately to his chum with the precious information.

"They're expecting a returning projectile from South America. They've got to be on a constant lookout because there's nothing very definite, as you know, about the way it travels across or the exact time and manner of its return. But they've got wind in some way that the projectile is about due, and that accounts for the extra excitement. Let's hang around and see what

happens,"

As the two friends watched the proceedings from a little distance, they observed a constant scurrying about the building. A number of foremen or overseers directed the movements of several dozen natives who bustled in and out of the circular structure hanling queer bulky appliances, dragging cables, and doing other menial but obviously essential chores. High up near the top of the dome-shaped roof Fletcher pointed out to his companion a turret-like affair, in which two or three men appeared to be engaged in certain adjustments or manipulations. They were evidently in communication with those in authority on the ground, either by signal, telephone or other medium. Their perch seemed to be movable. The two youths on the ground could see it slowly shift its position within a narrow area on the curved 100f, as though it were some kind of focusing device being directed at a particular spot or object.

Hale was about to inquire from some one regarding the significance of this contrivance, when he was halted by sudden cessation of that beehive activity about the building. Everybody stopped work and looked aloft, A low hum became audible above. The hum rose to a whistle, faint at first, but increasing steadily in in-

tensity.

"It's the returning shell!" cried Fletcher, seizing his comrade's arm. "Look!-nearly overhead-and coming

right for the dome!"

A pinpoint of brassy lustre grew in the sky until the unmistakable outlines of the projectile were apparent The whistle rose to a shrill scream. The men in the turret on the roof were busying themselves with their controls. The turret swung over slightly, remained stationary for an instant, swung over a little more, came to

rest finally. Hale and Fletcher had their eyes fixed on the descending vehicle-the eyes of all on the ground were similarly

Suddenly a muffled exclamation from Hale

And to be sure, the shimmering shell, slowly decelerating as it approached the ground, was now suspended in midair about fifty feet above the building. Its stubby nose was directly above the opening in the top of the dome. The shell had been heading true for the top of

the frame structure into which it was intended to slide. And yet, there it was, motionless and unwavering, suspended rigidly between earth and sky like Mohammed's tomb

The focusing turret on the roof moved again, as though an invisible beam was scanning the returning shell before

admitting it to its final resting place

"Why, confound it, of course !--- " Hale burst forth as the solution of this vexing problem suddenly dawned

upon him. "Don't you see, Ray, they've got to give it a clean hill of health before it's allowed to land. It's for their own protection. By Jove, now I can understand it all. They must have some device down in the receiving chamber that exerts a powerful counter-push on the shell and stops it in its flight just before it is to land. Then that gadget up there on the roof is brought into play and sweeps some kind of an X-ray beam across the shell while it's hanging there. I suppose they can tell immediately what it's bringing home to them-just thin air, or men from the other side of the globe, nr a message, or-a charge of T. N. T.'

"I see," murmured Fletcher, watching the suspended projectile in awe. "So that's why the shellful of high explosive that the British sent back did not go off. The Tibetans spotted the trick immediately, and returned a cargo of their own khatonite that wrecked a good portion

of the English landscape."

The invisible scrutiny of the suspended missile now over, and the contents observed to be innocuous, it was permitted to settle slowly into the orifice through the roof, coming to rest in its upright cradle within. The two friends waited around just long enough to ascertain that the new arrival contained nothing of material importance-merely a note from the Brazilian government that was a curious mixture of query, stern denunciation, and cloving sweetness.

"But what I can't see, Cliff," remarked Fletcher in a puzzled tone as they strolled away from the scene, "is how we managed to get through without being given the 'once over' in this way. You remember don't you, how neatly we slipped in, without anyone knowing about our arrival for a while after we landed? Gosh, if we had been several hundred pounds of high explosive, instead of just sor, then there would have been a different story

to tell, wouldn't there?"

"I dare say," ventured Hale. "It's just an example of how this projectile scheme of Lun-Dhao's slips a cog occasionally. Something went wrong somewhere, as has been happening time and again, and our shell arrived perhaps hours ahead of time. I'll bet that Lun-Dhag was as mad as a wet hen when he got the news. A valuable portion of his layout here might have been seriously damaged if ours had been an explosive shell."

Hale and Fletcher witnessed the dispatching of shells day after day. They listened to the incessant news reports coming from the outer side of the globe, telling of the reception of the shells and the plans for reprisal. They also witnessed the return of some of them. They read the messages that come back-several peaceful and conciliatory-others couched in terms of open defiance. But what Lun-Dhag wanted most-chemists-of those there was a woeful absence.

With horrified tenseness the youthful adventurers witnessed the dispatch of shell after shell containing that deadly vellow explosive khatonite, more powerful than any that had ever been dreamed of in western warfare. The news of destruction of towns, the laying waste of defenseless countryside, struck the hearts of the two friends with sidening dismay and revulsion. Lun-Dhag was continuing his program of atem reprisals with increasing intensity. Rebuff after rebuff had driven him into an attitude closely akin to frenzy. Slowly but relentlessly all the powerful forces of destruction at his command were being loosed upon an unyielding humanity.

From time to time, Hale and Pletcher beard radiolisates from America that affected them personally an influents from America that affected them personally an influence of the second section of the second section of frequency, heard the accounts of their mad dash off in the popularity, began from the second section of the second immediately regarding the bold stroke of these unknown immediately regarding the bold stroke of these unknown words, not even the return of their bodies as in the words, not even the return of their bodies as in the words, not even the return of their bodies as in the words, not even the return of their bodies as in the words, not even the second second second marryrs in the defense of a helplen humanity against a read comprision to the second second second was as even, that the projection had their origin on some read to the second second second second was as even, that the projection had their origin on some

THE two friends stood expectantly before the desk of the Tibetan chieftain in his samptousuly furnished chamber. Lun-Dhag ant absorbed in various writen reports bying in front of him. His shagey two were lost in a deep stood. Now and then a faint bear sounded and he turned from his task to an instrument of countenance, and his dany reforts to some distant persons became increasingly awage.

Presently he looked up, as though he had just become aware of the pair standing silently before him. He eyed them narrowly—his visage became darker.

"I've sent for you," he began brusquely, "to let you know how things stand. You are both probably well acquainted with my plans. They have been well laid worked out nearly to perfection—but the results are not satisfactory—and you know it!"

"We are doing our share," returned Hale, in as cool a tone as he could muster, although his chief desire at the moment was to pounce on the fiend and strangle him there as he sat. "My friend and I are contributing our best efforts—in accordance with our bargain with you."

"Yes, yes, to be sure, young men," Lun-Dhag hastened to reply in a somewhat mollifying tone. "I have no fault to find with you. I trust you both implicitly." Hale marveled at the glibness of the lie. He wondered

if the crafty Oriental really believed that they were fools enough not to see through his thin veneer of deception. "But," continued Lun-Dhag with increasing wrath in his voice, "it's your countrymen who are to blame—your Americans and English and French over on the other side of the felbo!"

Fletcher was about to burst out with a cutting retort. The idea — to be blamed for not wishing to have yourself blown into eternity, by an explosive shell dropping on your head . . . however, he checked his tongue in

"If only they had complied with my demands!" Lun-Dhag went on. "I asked them to help me out in solving a technical problem that was vexing me. They could have complied easily enough, and ended the matter then and there." Hale's answer to that statement, expressed

inwardly, of course, was that it would have been a mere beginning. "But what do they do instead? They send me, not scientists, but impostors! . . . Rain explosives down upon me. . . . Try to wreck my work of years. . . And so I am compelled to return in kind—for I am not the sort of man to be trifled with . . " The Tibetan rose from his seast and scowled meuscingly at them.

The two westerners could easily have mustered up a hundred sharp answers, but they realized that to reply was useless. They could see that they were not dealing with a sane individual—that Lun-Dhag, scientific genius and shrewd schemer though he might be, was, in the last analysis, a madman, obsessed by a single idea, and bent on carryine it out at all costs, and no matter what the

consequences might be.
"I have planned and worked for years," resumed the

chieftain. "My associates and my people have toiled with me. Our projectile device works, as you know but its effectiveness is spoiled at times. It is not a trustworthy machine, yet. We have striven to make it reliable, and must admit that the results are not altogether successful. I am bitter against the world-bitter against those who have ignored my requests for assistance-bitter against those who are scheming to thwart my plans. Well, my good lads, the crucial time has come. I have been holding back, waiting, delaying, and now I am going to wait no longer. The first real stroke from my hand as a gesture of my power shall be given soon . . . very soon. Then the whole world will realize its stupidity and folly in resisting me and my people. This supreme stroke that is about due will fall like a thunderbolt. In comparison with it, the former manifestations of my power will appear feeble. It will indeed be a fitting symbol of the terror that is Lun-Dhag And, my dear friends, you and you-each of you will have a prominent part in the consummation of this proj-

worthy an accomplishment1..."

Lun-Dhag began pacing the floor in extreme agitation.

mumhling incoherently to himself, alternately seowling and learning at the astonished youths, bursting occasionally into raucous guffaws of laughter as the mystifying humor of the situation dawned upon him anew. Hale and Fletcher deigned no reply to his insane out-

hurst. All they could do was to eye him apprehensively in his agitated pacing up and down in the Oriental chamber. Finally, Lun-Dhag halted in front of them, massive shoulders hunched, spindly legs far apart, hands clasped behind him, beady eyes scrutinizing them through narrow slits in his leathery skin.

"You shall learn more presently?" he snapped. A gesture of the arm indicated to them that the unpleasant interview was at an end.

HALE came into their room with his face pale and drawn. Fletcher was already there, having a shorter distance to travel from the scene of his daily work than his friend. Hale dropped heavily on the couch.

"It's nearly ready," he remarked tersely.

"It's nearly ready," he remarked tersely.

"What is nearly ready?" queried the other sharply.

"That master stroke of Lun-Dhag's," returned his chum, "the one he was telling us about the other day.

I just heard the first details of it over at the lab, this

"And what's it all about?" hreathed Fletcher eagerly

"Simply this; Lun-Dhag has been firing projectiles

now for weeks . . . some with messages, some with explosives. He cannot make the rest of the world come across. He has blown up portions of the country here and there over widely scattered regions in America and Europe. Some shells have done very little real damage. Others have fallen in areas where serious destruction have resulted, both to life and to property. All have been of comparatively small calibre, giving merely a taste of the real thing. His chemists have slaved like Troians in an effort to correct the gross defects in the operating mechanism, with but little success. I myself can vouch for the enormity of the problem, because I've been in intimate contact with the work at the laboratory since the day we came here. And now Lun-Dhag sees no further reason to hold up his plan. Preparations are

just about complete for the big push." "What do you mean, big push?"

"The laboratory staff has been occupied day and night for over a week in completing the driving mechanism of a super-projectile, the like of which has never been attempted before. The shell plant has practically finished this super-projectile and the operating units are to be installed in a few days. Just as soon as that's turned out in a finished form, a dozen more will be produced as fast as they can be made ready."

"And the Idea back of it all . . .?" To commence an attack on the Western world such as has never been imagined in the wildest nightmare. The first shell, charged with several tons of khatonite will be aimed for New York. If it makes a direct hit, and Lun-Dhag's experts are striving manfully to turn out a shell that will do so, then half of the city will be annihilated at one awful stroke. If it doesn't land true, they are prepared to send another huge monster right

on its heels . . . in fact, a whole stream of them." Fletcher uttered a low whistle at the sheer enormity

of the thing.

"And that isn't all. Plans are being pushed for a constant flood of these super-projectiles from the plants. A rain of death is being prepared for all the large centres of population on three continents, London, Paris, Berlin, Vienna, Rome, Chicago, Mexico City, Buenos Aires-all have been singled out for concentrated bombardment and immediate devastation.

"Why Cliff, that man is a-a-lunatic-a raving maniac! Why ...!

"Whatever he is, that's the situation as it stands. The conquest of the world-the utter destruction of western civilization is about to begin!"

"But, hang it all, Cliff . . . What are we going to do about it? You and I must . . . !"

"What can we do?" and Hale's voice was hollow-his face blank. "We are helpless1 . . . We are nothing but slaves of Lun-Dhag-cogs in a complicated machinery! ... The plotted destruction of the civilized globe seems

to be inevitable! . . .

Fletcher caught his breath with a jerk. He stared intently at his friend. Good Lord! . . . Were his own senses going back on him? . . . Was Hale going mad, along with the rest? . . . Was the constant association with the feverish activity of a group of frenzied scientists actually undermining the sanity of his chum? Surely this was not the proud, vigorous, indomitable Cliff who had first broached to him the notion of entering upon an extraordinary adventure into the unknown for the sake of helping a sorely stricken world.

Again Fletcher peered into the pallid features of his comrade in peril. A tense, expressionless face met his gaze. Fletcher looked long into it . . . and caught an almost imperceptible narrowing of the eve . . . an evanescent flash of an unmistakable message. For another moment he continued the stare another fleeting movement of his chum's eye, and then Fletcher fell back

with a limp "Oh!" on his lips . . .

Hale was positive that they were now being watched more intently than at any time during their sojourn in Lhasa. He almost felt those unseen eyes on him wherever he was-in his room with Fletcher-at his duties in the laboratory-walking about the city or through the plant units-traveling in the automatic conveyances on this or that errand. He knew that every word that passed between his companion and himself were recorded and reproduced for eager alien ears. His fervent prayer was that Lun-Dhag and his infernal staff of diabolical scientific experts had not as well in their power the reading of his innermost thoughts. For, although his words might be taken as an indication of active cooperation with the plans of this madman genius of Tibet, or at

worst, of a non-committal attitude toward the destruction and conquest of the Occidental peoples, his thoughts, it might readily be expected, were actively concerned with but one idea: To work out a way of thwarting Lun-Dhag before it was too late. He realized now, more than ever, that haste-was imperative. With preparations for the impending storm of violence and death already practically completed, there was hardly a minute to lose if it was to be averted. The following evening. Hale announced to his chum

additional details of the great undertaking now in progress. He spoke glibly of dimensions-cubic capacities -weights of khatonite-quantities of chemical propellant for the projectile. And as they strolled through the Oriental garden surrounding their habitation, Fletcher was startled by feeling Hale's hand brush his, as though accidentally. Something was pushed into his palm-his fingers closed over it-it felt like a tiny scrap of paper . . . a message! . . . They continued walking along the lane to the house, chatting pleasantly. Fletcher dared not make an untoward move. All night the mystifying epistle lay next to his skin, almost burning a hole in it, but he feared even to touch it with his hand. The next day, secreted on his person, the note accompanied him to his task at the khatonite plant. There he suddenly became conscious of the increased activity about the works-a commotion and excitement that apparently had escaped his notice up to the present. He knew the cause-tons of khatonite were being turned out where only pounds had been required before-tons of high explosive that were to be transported in those dread superprojectiles to congested centres of population all over the world

At about noon, Fletcher managed to cast a momentary peck at Hale's note at a time when he could disguise the act under cover of some routine operation in his task.

Cryptic and mystifying, the message read: Three days more-have plan-think it will

work-no questions-obey prompetly-only hote-C What scheme his comrade had up his sleeve, Fletcher had no means of even guessing. All he knew was that

Hale could be relied upon-that whatever it was he could leave it to him . . . good old Cliff1 . . At the evening meal, during the spirited interchange of comments across the table, a slight but significant nod to Hale spoke his acknowledgment of the message He had little difficulty in secreting the bit of paper in a morsel of bread ascending to his lips. He gagged slightly in attempting to swallow, had a slight flurry of coughing, but finally succeeded in downing the tell-tale scrap.

THE day of the big shot!

The entire population of Lhasa, it seemed, had turned out to witness the spectacle. A sort of holiday had been declared, so that the whole city could assemble for the ceremony that symbolized the launching in earnest of the campaign of subjugation. When Hale and Fletcher, tense with suppressed ex-

citement, arrived on the scene, they found several thousand Tibetans already congregated, and a constantly swelling stream pouring out from the city to add to

their numbers. The firing spot was a large open space, flanked at a good distance by the various plant buildings and laboratories of this mushroom industrial centre that had grown up just outside the ancient walls of Lhasa. In the exact middle of the open area stood the mighty super-projectile itself, housed in a gigantic framework

that had been erected out here in the open expressly for this metallic monster. "What a whooper!" was all that Fletcher could say,

standing there with Hale on the slightly elevated ground at a distance from the shell

"I have already seen it before," replied his chum grimly. "Yesterday we put the finishing touches on the chemical driving mechanism. I assisted in making the necessary adjustment for range, speed and control in flight. The projectile is ready." A steely glint flashed in Hale's eyes, and was gone in an instant.

The two friends worked their way through the restless crowds toward the immediate vicinity of the projectile. Curious glances were cast in their direction by the Orientals as they cleared a path for themselves through the throng. But the glances reflected no feeling of hostility. The two western youths were well known in this Tibetan stronghold. Their presence here had already been accepted by all as a perfectly normal phenomenon. In fact, the crowd opened up and fell away before them, so as to facilitate their progress to the centre. For, hadn't the populace been told over and over again that these young men from the Occident were the very chosen of Lun-Dhag himself-his own technical advisers and right hand men? So that the two chums made rapid progress through

the assembled multitude. Each, to himself, could not but feel the striking similarity between this occasion and those other two memorable ones when they were also worming a path through solidly packed humanity to get closer to the apright and sinister messenger from out of the unknown. Only those other shells were mere pigmies in comparison to this one, A veritable monster it was, fully forty feet high and eight to ten feet in diameter. Supported on its blunt tail by the massive pyramidal framework, it pointed its equally blunt nose directly to the skies in an attitude that might almost represent challenge and bold defiance.

Reaching the centre of things, Hale and Fletcher paused to take in the scene. An intensely dramatic spectacle presented itself to them in a vast panorama as their gaze swept the entire field of vision. In the clear space around the discharging stand, a canopied plat-

form had been erected for the accommodation of Lun-Dhag himself, his chief advisers and technical experts, and the Lama high priests. From the immediate vicinity of the super-projectile, the ground sloped up gently in all directions to the first row of detached plant buildings and factories. This area was now black with people joyfully assembled to speed the shell on its way. Even the roofs of the various buildings were crowded with holiday-spirited onlookers. In back of the first row and at some distance up the ever-ascending slope, were other scattered buildings that were acting as observation posts for hundreds. Beyond those the ground continued to rise to the distant low ridge bounding this entire industrial establishment. Dotting the circle of higher ground, like jewels set in a vast crown, they could make out the tiny dome-shaped structures that they knew so well. These were the firing stations for the smaller shells-dozens of orifices that had spit forth hundreds of missiles aimed against the countries of the west. They themselves had witnessed the firing of innumerable projectiles from these discharging stations -some of them bearing deadly charges of khatonite and

destined to spread havor and death over portions of But now these depots were strangely mute and inactive. No small fry today! This was the day for that big fellow down there in the valley. All the operating personnel of the firing stations had been dismissed to take part in the sala occasion below. Only a handful remained to patrol the scattered ring of structures.

merely as a perfunctory task.

America and Europe.

Hale's eyes lingered for a quivering moment upon the circle of cupolas that dotted the ridge, then turned to the canopied stand close by. Fletcher stood alongside of him, pale but resolute, not knowing what to expect, but ready at an instant's notice for whatever action might be called for.

A fanfare of trumpets sounded in the distance. The multitude set up a shout, and seemed to melt away at one point, forming a wide, clear avenue to the centre of activity. It was Lun-Dhag and the high officials of the regime, together with the religious heads of the com-

munity. They approached with regal splendor, borne in a fleet of vehicles that slowly and noiselessly descended the gradual slope leading to the projectile, with the elaborately decorated platform nearby The caravan halted at the inner rim of the crowd.

Lun-Dhag and his immediate advisers emerged from the first vehicle, the largest and most ornate of the fleet. He was outfitted in gorgeous Oriental robes, soft in texture and vivid in colors. But splendid though the garments were, they failed to lend any great amount of regal splendor to his dwarf-like, pot-bellied, spiderlegged person. He waddled to his place on the dais, followed by his entourage. A hush fell upon the vast assemblage. The ceremonies were about to begin

The "Dalai Lama," the High Priest of all Lamaism now stepped forward-a majestic figure in flowing silken robes, with a stern visage of yellow-brown hue and a long white beard. He raised his hands to the multitude, and uttered a slow and measured incantation. In sing-song fashion, the lesser priests about him echoed his words. A low wailing chant broke out over the assembled throng, which swelled out to a mournful cry like the plaint of a million lost souls. The sound rose and fell in wave fashion, now a long protracted howl, now a faint ouivering moan, Then it died out completely Lus-Dhag arose from his seat under the varicolored canopy, and addressed the throng in a rapid-fire discharge of verhinge that fairly erackied through the air. He gestelated vigorously to punctuants his invective. He gestelated vigorously to punctuants his invective, indicate the massive projectile towering over the heads of all. Bursts of wild acthin interrupted his free quently. The crowd waved hits of colored cloth and should their approval at his words. A frenzied cliams, of Oriental oratory brought his speech to a flow and of Oriental colors of the colored colors of projects of the colors of the colors of projects pr

Instead of resuming his seat, Lun-Dhag now turned to the two American adventurers and addressed them personally in English. His tone was earnest, his words commendatory—almost flattering. They had both done their work well—their assistance at the duties assistance.

to them had been invaluable.

"Both of you, my good late," he amonumed, "have samply justified the great faith that I have placed in you from the very start. Your work has been difficult, but it has been crowned with granine success. In your assistance at the chemical plant and at the Matematic factory, you have rendered an invaluable service to the cause. There stands the product that you and all of a considerable of the product that you and all of the product of the product that you are all of the considerable of the product that you have a proton we needly for its important journey—with a message to all the world that the forces of ancient Lamsium are to rule the world-that Lum-Date is suppressed."

The two friends bowed stiffly in acknowledgement of the chieftain's personal tribute to them, at the same time realizing, all too well, the crafty duplicity of this demented genius. But they had to go through with the

mock ceremony

The prayers, chaning and speech-making were now over. The next order of histiness was the projectile. A realless stirring fluttered through the assemblage. An air of suppressed excitement pervaded the entire scene. Lun-Ding stepped down from the platform. The groups of Tibetan technicians and scientists under way for him as he approached the edge of the scalinding that suptered the scale of the scalinding that supbelonder to Hale-metallic denon. He turned and bedoned to Hale-metallic denon.

"Come, son," he said with unctuous softness, while a cruel gleam twinkled in his dark little eyes . . "Come . . . you shall have the honor . . ." He indicated a con-

... you shall have the honor . . ." He indicated a control panel fastened to the horizontal beam nearest the

Hale responded like an automaton. He felt as though the were in a hypotic transce as he slowly approached the faith panel. Times beyond recording he had seen that how switch, smaller than this one before him now, but just as deadly in its action. Times without number almost, he had be waithed it awing trusted with a siderning click. And each time a swift messen-ger of doom had slid supward through the well labricated framework and sped forth on its errand of terrorization or destruction.

"Come, come! . . . why do you hesitate? . . . This is

a signal honor for you! . . . "
The smooth words seemed to pierce his eardrums and
stab into his hrain with seering flashes of fire. He
reached forward blindly, seized the handle of the
switch, and swung it over savagely. An instant of
threathless suspense, and then an awesome "46.6" from
the motionless mass of humanity. The titanic superwriterile became ealvanized into action as though sud-

dealy inshord with life. As easily and smoothly as thought were an enter by, it littled is huge built and swept spearal between the vertical supports. It was spearing regord. In later stills... it was not entirely spearing regord. In these stills, we have a soon stylatabel back from the multivale—the sound splatabel back from the walls of the exclining buildings belief the unlighty least and revolve-leasted through the valley like the mighty least control of the still of the still

abatement.

In the din and excitement, Fletcher suddenly found Hale back at his side—and underneath the apparently serene exterior, he sensed a caldron of agitation in his chum.

"Now!" breathed Hale into his ear.

He turned and made his way through the excited groups clustered around the sendiding. Further was close beside him. Others were circulating about the open area, laughing, studies hands, conversing shrilly, making merry in general. Consequently the movements of the two liadle to attent any under statenian. With an onochalant an air as they could master under such tense circumstances, they worded their way. Hale slightly in advance, to where the group of official vebidles were parked.

When they were almost there, Hale's hand brushed Fletcher's and the latter felt a cold, hard, slender object, His fingers closed over it. He recognized it, without even looking down. A portable paralyzer! How well he knew this deadly instrument. How often he had witnessed its lightning effectiveness as a weapon! Hadn't they themselves been subjected to its somewhat milder influences on the very first day of their visit to Lhasa? But how had his friend accomplished the impossible. How had he managed to procure two paralyzers?-a slight hulge in Hale's pocket indicated that he was similarly armed-and how had he succeeded in keeping them concealed while under such minute surveillance? But this was no time for idle conjectures. Action now . . . and plenty of it ! . . . Fletcher's blood thrilled at the thought.

"This way; ... Quick ... in here!" Hale's terse words came from between clenched teeth. "Now ... ###!!"

He holted sudderly into one of the smaller cars, Fletcher was with him in a flash, crouching low in the whicle. Hale fingered the controls and the car langed forward. Straight for the cleared corridor it made, while Thetan officials, scientists and assorted conockers scattered in disrany. A few luddess indiconockers scattered in disrany. A few luddess indiconockers scattered in disrany. A few luddess indistrance of the care to the care to the care to the sudden luxching of the car, told of their fane.

The hibrious noisemaking and juhilation became stilled for a polipitating instant, and then a roar of anger swelled up—an ominous burst of constremation and frensy. Looking back, Fletcher could see a form of pandemonium raging now that was obviously different from the previous variety. Lun-Dhug and his entire entourage were running about in apparently iname agitation. Commands, wild gestellations, staking of first, wailing, scampering in all directions. A few of the Tibetan technicians were working feverishly at the controls on the metallic firing frame, which had so recently housed the super-projectile. Others were tugging desperately at a bulky apparatus near the outer rim of the cleared circle. Figures were piling into the remaining cars to take up the pursuit of the two

foreign youths. "We're making for the ridge up there!" panted Hale.

"It's our only chance!" He peered ahead eagerly as their tiny vehicle bounced over the rough ground. They were ascending the gentle slope leading up from the firing area, and had by this time covered more than half of the ever-widening lane that ran through the closely packed Oriental spectators. The vehicle was now almost at the first row of plant buildings that bounded the area.

"Firing Station No. 34, Ray!" breathed Hale, by way of explanation. "The one with the pinkish dome up there I . . . that's where we're heading ! . . . There's a shell waiting for us there . . . It's all set for the trip back home . . . adjusted to land somewhere in the West . . . Frisco, I think l . . . They never got around to firing

it . . . been here for days . . . Everybody concentrating on the big fellow down the hill, there," with a jerk of his thumb in the direction from which they were now racing. "But I've fixed that big fellow plenty!" His pale lips set in a grim line.

They had now cleared the last of the astonished crowds and were jostling over the uneven terrain up

toward the encircling ridge. Plant buildings, factory units, laboratories fled by them as they plunged onward toward Firing Station No. 34. Fletcher, keeping a lookout behind, could see that an

organized chase had commenced. One after another the pursuing vehicles came into view, dashing madly in the wake of the fleeing car. Behind this fleet came a horde of Tibetans on foot crowding each other furiously in the wild surge up the slope.

"They're gaining on us!" cried Fletcher. "That big car-the one belonging to Lun-Dhag1 . . . it's in the lead Cliff . . . and coming on ns fast !"

Hale bent to his controls. Their tiny vehicle struggled manfully up the rising ground, but was no match

for the powerful monster coming on relentlessly from behind. Fletcher reached over the side of their car and

pressed the thumb button on his paralyzer tube. Eviidently there was no effect. The onrushing juggernaut continued to shorten the distance between them. And now it was almost upon them, roaring and snorting like a terrible demon of destruction. And now it was right alongside. The fleeing youths caught a glimpse of several pairs of evil Oriental eyes. Both of them fired their weapons point blank into the pursuing car. Was their aim defective? Were there weapons innocuous? Were these Tibetans possessed of a certain immunity against the paralyzing ray? At any rate, the occupants of the other car continued to leer at them mockingly.

The pursuers were now half a length ahead of the fleeing youths. "They're going to cut us off!" shouted "Hold tight !"

Suddenly the larger vehicle swerved sharply to the right. Wheel locked with wheel. A crunching, grinding, tearing sound . . . The light ear was spun about violently and deposited half over on its side. The other, with speed unslackened, skidded in the same direction,

struck a large rock, careened crazily, and in one sickening instant crashed over and over, coming to rest bottom up in a tangled mass of twisted metal at a little distance from the first.

Hale and Fletcher, dazed from the shock of the impact, and painfully bruised, but otherwise unhurt, scrambled from their own wreckage, weapons still in hand. Three broken figures were just visible under-

neath the overturned car. Hale noticed in a flash that Lun-Dahg was not among them-though the vehicle was his As the two friends sprang to their feet and dashed

up the slope the second of the pursuing cars came along and plunged with almost undiminished speed into the wreckage. The others drove up rapidly, some swerving sharply and grinding to a halt nearby, others, unable to stop in time and joining the furious tangle created by the first crash. But the escaping pair did not wait to ascertain the full extent of the eatastrophe. They were running up the rising ground toward the row of firing stations, now only a few hundred feet shead. An occasional glimpse over their shoulders revealed swarms of Orientals scrambling from the stalled vehicles to join the horde of pursuers that had come up from behind on

"Just a little more!" panted Hale, "Look out . . . for the . . . guards l'

Now they were on level ground again. Before them stood the pink-domed structure-Station No. 34. Suddenly a figure came running from around the side of the building. Another was right behind him. The guard 1 . . . Two of the handful of men left to keep watch on the firing stations during the gala ceremonies below. They had been attracted by the tumult and confusion attending the mad pursuit up the hill. Now they stood there in petrified astonishment, their sluggish Oriental brains trying to grasp the extraordinary situation

"Let 'em have it?" and Hale punctuated his cry by a vicious stab with his paralyzer. The first of the Tibetans crumpled up and lay rigidly still. Almost at the same instant Fletcher let loose his ray to catch the other amidships and curl him up with neatness and dispatch.

Wheeling quickly, they now came almost face to face with the panting vanguard of the pursuing mob. A lightning lunge of the deadly weapon in the hands of the youthful adventurers swept a dozen of the nearest ones relentlessly to the ground. The less fleet of foot were still some distance from the top of the ridge. A lightning glance down the slope to the scene of the firing ceremony revealed utmost confusion. Tiny fig-

ures were working frantically to draw up various pieces of bulky apparatus and bring them into position at the base of the metallic runway. The mass of humanity crowded together in the surrounding area was in the wildest panic imaginable. And even at that distance Hale caught a glimpse of the gorgeously regal garment of Lun-Dagh, who was dashing furiously here and there, showing that the mad genius of the Tibetans was bending all efforts to get some order or system out of this chaos.

All this the two on the ridge absorbed in one instantaneous glance like the flash of a photographic shutter. Then: "Come on, Ray . . . Station 341 . . . " The two ran for the open doorway of the dome-shaped structure. Just as they reached it, a shrill, faraway screech assailed their ears. It seemed to come from nowhere, and yet it was all about them, and growing louder. They stopped in their tracks. The pursuing figures, now just reaching the top of the ridge, slowed down, latted in dismay, and gazed upward, about them, and down to the seething turmoil below. The shrill, whining shrick was growing stronger and more piercing with each passing aecond. It withrated through the consciousness of the two clums with a penetrating fierce-ness.

"It worked! . . . God, it worked! . .

Hale's scream echoed in his friend's ear and momentarily drowned out that other awful sound. Hale was now jumping up and down like one possessed. "The shell!... the super-shell!... it's comming back!

... We can't lose a minute! ... Hurry! ... Hurry!"

Almost seizing his friend bodily, he dragged him
through the entrance of the building and slammed the
sliding door tightly shut in the face of the foremost
pursuer. The projectile, with panel open wide, was
stationed there in its supporting cradle, ready for their
flieht. They clambered up the framework.

"Get in!" panted Hale. "It's not as comfortable as the one that brought us bere... but it'll do. We may feel the bumps more... there's no padding, you see ... was meant for a load of khatomile. But there's one

thing about it . . . it will float I I saw to that when I helped build it—so if we come down on water . . . we'll have an even chance!"

Fletcher was by this time inside the dark interior of

the projectile. He reached out for his comrade.
"Wait!" called Hale. "Grab that panel, Ray!...
and hold it tight!...Don't let gol..."

Standing within the cramped chamber, Fletcher grasped the stilling door with both hands, brazing him-self firmly against the metallic walls of the shell. Outside the station, he could still bear that hornible shriek. It penetrated the walls of the building; its erier wibration was enough to strike terror to the very beart. At the barricaded door of the structure, a confused claimor bears of the structure, and the structure of the structure, as confused claims of the structure, and the structure are structured to be a structure of the structure, as confused claims of the structure, as confused claims of the structure, as the structure of the structure, as the structure of the structure, as the structure of the structure of the structure, as the structure of the structure of the structure of the structure of the structure, as the structure of the structure of the structure of the structure, as the structure of the structure of the structure, as the structure, as the structure, as the structure, as the structure of the structu

Hale, still out on the scaffold, reached down to the vitalizing control switch, and swung it over viciously. Then, as his companion struggled desperately with the sliding panel, be straightened up and dove into the com-

partment. He was carefy inside, when a terrific concussion shook the universe about them. Like a cataclymic carefugate it took the saled to saled carefugate it coded the saled carefugate it took the saled carefugate in the saled that the saled carefugate it companying case of sound best down upon them like an overwhelmic torrent. At the very instant of the terrific bast Pletcher's fingers bosened their grip and the projectile panel tore itself shats. The whole quested and strained over end. They felt themselves being battered shout as the missile lurthend now this way.

now that ...

Crash! Human skulls meeting hard unpadded metallic walls ... Piercing flashes of light! ... stars! constellations! entire galaxies! ... overwhelming pain!

oblivion! ...

"ANOTHER one of those damned things, sir. Came down plunk!... just like that, about a half-mile astern. Disappeared out of sight with a big splash, sir, and came right up to the surface again immediately." The commanding officer knit his brows. He had

orders to bring his cruiser, the U. S. Iriquois, unit of the Pacific Fleet, to San Pedro harbor under forced draft. He was now less than thirty miles from his destination, and making good time. But he recognized his obvious duty, in the face of orders to the contrary. The menace of the falling projectile was of paramount moment at this time.

The vessel was put about. Yes, there was the slender, metallic shell, floating half above the water, its conical tip pointing off at an angle. One of the forward

guns was made ready. A single shot would do the

But wait! . . This projectile seemed to be different from the rest. It certainly was not behaving like all the others that had fallen either on land or on sea during the past few months of world-wide terror. If it had behaved like most of the rest it would have detouated with great violence the instant it struck. But there it was, bobbing lazily about on the waves, apparently as unconcerned and as harmless as a low

Followed a hasty council of war and then a boat was lowered. With the captain aboard, it was cautiously taken in the direction of the enigmatic object. A few judicious circlings, and then the boat drew closer. Hullo! . What was that? . . The doorway or

pamel was open, and with every rise and fall of the floating projectile a quantity of sea water was splashing into the interior. Closer and closer... the captain reached out, seized

the smooth edge of the doorway, and peered in. An exclamation of astonishment escaped him. Two crumpled figures lay huddled together inside.

"My God! They've sent them back!... those two

"My God! They've sent them back!... those two young fellows who went off a couple of months ago in one of these things... now they're back! But wait!... they're not dead! __look... they're breathing!... Quick men, lend a hand!..."

The cold water solashing into the shell had berun

The cold water splasting into the shell had begur to have its effects on the two battered figures lying limply inside. Hale half opened his eyes, looked about him and into the earnest faces peering down into his, and wearily closed them again. Fletcher stirred painfully and uttered a slight moan.

Tenderly the two semiconscious forms were lifted from the shell and deposited in the bottom of the bost. "Well, Ray . . . that's the end . . of Lun-Dhag . and his dream—of world power . " Hale's eyelid fluttered feebly and opened again. He felt for his friend's arm near his, and squeezed it affectionately

Fletcher smiled weakly. "Lun-Dhag . . . Lhasa . . . Station 34 . . . all gone! . . "

A few moments of silence, and then Fletcher asked feebly: "Say—Cliff, how did you—turn the—trick?"

The men in the boat exchanged knowing glances and shook their heads sadly. Fletcher turned about painfully and smiled into the face of his friend.

painfully and smiled into the face of his friend.

The rhythmic splashing of the waves, against the
bow of the boat, was music to overwrought nerves.

Hale closed his eyes and sighed contentedly, as though

satisfied with a job well done.

THE END

The Finger of the Past

By Miles J. Breuer, M.D.

TRUST Dr. Breuer to give us something "different." "The Finger of the Past" is unquestionably an entertaining bit of scientific fiction, but even more than that it is highly provocative of serious thought and is worthy of much consideration.

Illustrated by MOREY

ALDO SWIFT, dapper young salesman of "Palaeoscopes, Inc.," shifted his necktie infinitesimally into the position of utmost nicety, squared back his shoulders, and then picked up his little black case from beside the elevator door and stepped briskly and energetically toward Herodias Buffum's office. And indeed, the prospect upon whom he was about to call was regarded among salesmen as a tough nut to crack. He had been known to eject sales-

men physically into the outer corridor. Therefore, Waldo Swift, in spite of the confidence he had in the appeal of the marvelous and astonishing invention he was "distributing," gathered together all the courage he

had before he opened the door.

He found himself in the luxuriously furnished reception-room belonging to the executive offices of The Radionic Remedies Company, located on the 127th floor of The Manufacturers' Building. There were two other doors in addition to the one by which he had entered. Beyond one of them was the faint hum of typewriting machines, while the other, which bore the name of "Herodias Buffum, President," was slightly aiar. As Swift let his eyes rove about the room taking in first one elegant object and then another, he could not belo hearing clearly the sounds that came from Buffum's office A distant door closed faintly, and a tinkling voice

said : "Good morning, sir!"

It was Miss Peacheline Fairchild, the stenographer who plided efficiently into the room, even before Buffum had ceased jabbing the button on his desk.

"We've got a lot of work today," Buffum said deep down in his throat. "Starting on something new."

Miss Fairchild was already sitting with notebook ready and pencil poised. Buffum was walking about the room hands clasped behind his back, his eyes on the ceiling "When I" he exclaimed. "A quarter of a million dollars to a country doctor for a prescription on a little card. What do you think of that, Miss Fairchild?" "Yes sir." replied Miss Fairchild respectfully, with

downcast eyes.

"Well," continued Buffum, "it was worth it. That little card is going to save our business. Did you know that The Radionic Remedies was just about on the rocks?"

By way of reply, Miss Fairchild gazed at him with large, sympathetic eyes. Buffum continued: The patent-medicine business is getting difficult People don't fall for stuff like they used to. Our reiuvenation idea has gone stale in spite of our wonderful

publicity department, and we're going into the hole I've about worried myself nuts for a new idea." Miss Fairchild was studying him carefully, trying to decide whether or not he was dictating, and whether or

not she ought to be putting this all down. Finally she decided that it was not dictation, and nodded sympathetically. Buffum went on: "Then comes along old Doc Cranbury with his pre-

scription for a thought-stimulating tincture-God knows everybody needs it nowadays. Let's see: Buffum's Brain Builder! No. That's weak. Well, we'll get a name The first thing is to get the whole organization to work on it. Take this, Miss Fairchild: Ahem! Ah-hrer! -Wait. Let's have a look at the prescription first."

He started toward the wall, into which a heavy safedoor was let, when a mellow bell pealed softly. For just then, in the outer office, Waldo Swift had discovered the button marked: "Visitors Please Ring."



"Hell?" said Buffum. He turned to Miss Fairchild; "Bring him in and we'll have it over before we begin."

He eyed Swift's black case, as the latter entered the private office, while Swift's eye traveled about the still more luxuriously furnished room. It was certainly modern, with its television screen, its photophonic beam projector, the huge keyboard for controlling the distant factory from the downtown office, the helicopter landing-stage outside the window sill. There were luxurious rugs and richly finished furniture; and amidst it

all, Buffum glowered at the square black case in Waldo Swift's hand. "What the hell do you want?" he demanded. Waldo Swift had a pleasant, cheery tone of voice.

"This remarkable machine will astonish you. Tremendous value in your business, entertaining in your leisure hours---"

"I can't be bothered now," growled Buffum. Just go right on working, sir," Waldo Swift said deferentially. "I shall not interrupt."

He set his case on the floor, opened it, took out a complicated and delicate-looking piece of mechanism.

and began setting it up. Just pay no attention to me for the moment," he said to Buffum. "As soon as I am ready I shall ask you to look at the screen for a couple of seconds.' But Buffum could not keep his eyes off the shiny,

clicking little mechanism.

"What is the damned thing?" he asked. Waldo Swift, working deftly with the apparatus, replied:

"This is the famous Palaeoscope. You can connect it with any person, scene, or object, and it will project a true and faithful animated picture of what happened

to that person or at that place, at any past time that you may designate." Buffum sported. "A bunch of boloney. You're wasting my time. I'm

busy." Swift never even noticed the discourtesy.

"I'm connecting it with your desk, What time shall we choose? Say this time yesterday. All right. Here goes !"

At first Buffum started suddenly, half rose out of his chair, and a few inarticulate gurgles escaped him. However, in an instant, Swift had moved a lever on the machine. It whirred and flickered, and on the screen appeared Buffum's desk, at which was seated Bnffum together with an old, gray-whiskered man. The latter gravely handed over to Buffum a small card in exchange for an elaborately executed check. Buffum was then seen to walk over to the safe and elaborately put away and lock up in it the newly acquired card. "That's far enough!" Buffum said sharply. He was

evidently nervous. "Stop the thing." Swift shut off the machine at once. "Now," he said, "I shall be pleased to leave this

model here with you for you to try out. I'll see you again this afternoon. "I'll look it over," growled Buffum. "I might get

one for the office-boy's Christmas-present." "After you've seen what it will do, sir," Swift said briskly, "you will want to order a hundred machines

for your advertising department." "Arrhl" snorted Buffum. "Quit blowing smokerings. You're wasting my time. I'm busy. All right,

Miss Fairchild. Ready? Take this." "Good day, sir," said Swift in the exit door. "I'll see you later,'

"Hrrrumph! Damn nuisance," growled Buffum. "All right. Let's see, where was I? Oh, yes. We need the

prescription of old Doc Cranbury's brain-tickler." He got up out of his chair and walked to the safe again. Twirling the knobs, he swung open the door and reached in. His face becarke blank. He leaned in and searched frantically around. He became rigid. He

tossed things back and forth in the safe. "It's gone!" he screamed. "Help! Police! It's stolen!"

After a moment he quieted down, and walked about and groaned.

"I'm ruined!" he gasped, dropping into a chair. "The prescription is gone. The business is a wreck. Miss Fairchild, call the police."

CUDDENLY his eyes alighted on the Palaeoscope Standing on a little table "Ahal" he cried. "If that pesticating contraption is

any good, we'll find out what has become of that prescription. Never mind the police, Miss Fairchild." Miss Fairchild dropped the telephone suddenly. She seemed unusually agitated. Buffum fumbled around

the delicate mechanism for some time before he found the proper way to set and start it; but fortunately his hurried and clumsy efforts did it no harm. After several false starts it began to flicker and whirr smoothly and steadily. On the screen appeared a picture of the safe in the wall, darkened as though it were night. A young man entered by the door that led from the main office, twirled the knobs, and opened the doors of the safe. Buffum watched him in the picture in breathless fascination. "Ho! ho!" he cried suddenly as the face of the young

man on the screen turned fully around for a front view. "So it's Oliver! My precious nephew! The police, Miss Fairchild." Miss Fairchild scurried to the telephone and began

dialing a number, while Buffum viciously jabbed the button on his desk, and then paced up and down the room snarling to himself. In a moment the door opened and a young man walked in. He seemed to be possessed of no particular personality nor distinctive appearance. He was just a nice young man, like thousands we see constantly on the street, near, well-mannered, wellgroomed, clever-looking.

"Now," said Buffum icily, standing and regarding the young man with a cold eye. "Hand over the prescription. I can prove that you've got it; so come on and quit acting innocent."

"Whassa big idea, guvnor?" the young man said calmly, evidently thoroughly accustomed to Buffum's eccentric outbursts. "Are you having a movie made?" "Give me that prescription at once!" Buffum snarled angrily. "Or you go to jail. In fact, you'll probably go anybow.

"Prescription for what?" asked Oliver with youthful sarcasm. "Keeping your temper and making your meaning clear? All right, I'll sit down and write you out a good one."

He took out his fountain-pen and began unscrewing the cap. Buffum became all the more enraged at this. "Damn you, you're making me sore!" he shouted. "I can prove that you came in here last night, opened the safe, and took a prescription out. Now deny it," Oliver shrugged his shoulders.

"I came in last night," he said, "and put away some important papers. But your twitter about a prescription leaves me cold." The outer door slammed and there was a trample

of feet in the reception-room. As the bell sounded, Miss Fairchild opened the door, and three policemen entered, looking around in bewilderment. Buffum stalked up to them. "I charge this man," he shouted, swinging his arm

toward Oliver, "with having opened my safe and taken a valuable document."

"Hm," said one of the policemen, with chevrons on his arm; "that's Mr. Mayflower, your nephew, isn't it?" "What difference does that make?" roared Buffum. "Take him away and lock him up. I'll appear to charge

him formally," The policemen acceded deferentially to the demands of so powerful and wealthy a man as Buffum. Yet they were sorry for Oliver, and handled him as gently as possible. Oliver had a half-amused, half-cynical expression on his face, and said not a word. He only looked inquiringly at Miss Fairchild, and when be had gotten her eye, glanced toward Buffum and tapped his forehead. Miss Fairchild's face remained set and im-

movable; nothing could be read from it. "The ungrateful whelp," Buffum continued to growl after the policemen had led Oliver out. "After I'd set him up in life! Miss Fairchild, we've got to get the prescription from him somehow, or the business is roined. It can't be-a big firm like the Radionicruined! Miss Fairchild, we've got to get that prescription from him.

Miss Fairchild shrank into a corner and nodded dumbly; she wrung her hands as Buffum raved on. "We'll have him searched at the station; then we'll go through his room. But I'm afraid. I'm afraid that the rapscallion has hidden that little card pretty thoroughly. Oh, what shall we do, Miss Fairchild? We can't let this business go on the rocks, and I've worried myself sick for months trying to think of something original. Oh, the young scoundrel! A quarter of a million dollars! I could choke him with my bare hands!"

Miss Fairchild shivered, probably at the thought of Oliver being choked with Buffum's bare hands. At this moment, the outer door was flung open as though some powerful force had burst it in, and a regal looking lady entered. Through a scornful lorgnette, and from behind the magnificence of a heap of furs, Mrs. Regina

Mayflower regarded her brother sternly, "Herodias!" she said in a voice such as one uses to call a child to account. "What's this I hear about

"The young rascal!" Buffum spluttered. "The scamp! Stole my prescription. Whole business depends on it. Won't give it back."

Oliver?"

"Stole it!" Disdain, supreme disdain radiated from her words and from her whole attitude. The Mayflowers didn't steal, and she knew it. "Sneaked in at night, and took it out of the safe,"

Buffum stormed. "Yes?" Mrs. Mayflower intoned contemptuously. "I can prove it," Buffum defended himself des-

perately. "Ha! ha!" tinkled Mrs. Mayflower's laugh. "He can prove it I"

Buffum, still growling: "The scamp! The wretch!" went to the Palaeoscope, took a good preliminary look at it, and began to fumble with it. In a moment it began to click, and suggestive shapes flickered across the screen, and disappeared tantalizingly. Buffum growled something to himself and continued to fumble with the apparatus. Mrs. Mayflower had noted something suspicious about the figures that had swiftly misted over the

scene. "Herodias!" she demanded. "What was that?" "Hrrrrumph!" said Buffum. "What was what?" "Put that picture on again!" ordered Mrs. Mayflower sternly. "What were you and that stenographer

doing on that picture?" Suddenly, as Buffum kept trying levers and buttons on the machine, the mechanism began to run smoothly, and the screen lit up brightly. Again it showed the safe, this time partly darkened, as though at twilight. Miss Peacheline Fairchild slipped stealthily into the room, her dim figure quite recognizable on the screen. She looked about her carefully, and then went to the safe, opened it, searched about; and took out a card that was plainly recognizable in the picture as Dr. Cran-

bury's prescription. This she put carefully into her handbag, closed the safe, and hurried out. Buffum's mouth worked up and down in silence, like that of a fish out of the water. Then he began to splutter and choke with rage.

"You-you-you-" he turned to Miss Fairchild, but could get nothing more coherent out of himself. He seized the terrified girl by the arm and shook her.

Finally, his wits and words came back. "Regina! Quick!" he exclaimed. "Call back those policemen with Oliver. No! Not the telephone. The photophonic projector. You can pick them up as they go down the street."

Mrs. Mayflower responded with alacrity. She sent the powerful beam of light out of the window with the photophonic projector. Through the telescopic sights on the instrument she picked up the policemen leading Oliver, far down in the depths of the street. She swung it about until the spot of light enveloped them. and then spoke into the mouthoiece.

"Just a moment!" she cried. "Mr. Buffum wants you back up in his office. He now has evidence that Oliver did not take the prescription, and he has the real

She watched as the tiny group far down below swung about and started back. Then she shut off the instrument and swept haughtily back into the room. She disdained even to look at Miss Fairchild, but sat down in Buffum's luxurious armchair. Miss Fairchild fideeted in an embarrassed way at a corner of the desk, while Buffum paced up and down.

"Where is it?" he spluttered when he had regained his composure a little. "Give it to me! I'll strangle

you!"

MISS FAIRCHILD, however, maintained a stub-born silence, and Buffum decided that it would be best to await the arrival of the police. It was not long before their steps were heard down the hall, and, together with Oliver, they entered. Oliver nodded and smiled as he glanced about the room, taking in the various elements of the scene and comprehending their significance. Then he bowed to his mother in playful

"Officers!" said Buffum pompously, "I've found the real thief. I was mistaken about Mr. Mayflower. Release him and arrest this—this—this—young woman. I'll fix up all the formalities later. Now, Miss Fair-rhild, will you give up that prescription?"

Miss Fairchild only smiled at Buffum and shook her bead. She went up to Buffum and whispered something in his ear. His face went blank; he opened his mouth as though to say something; then suddenly caught himself and stopped, and looked belligerently about the room. He clenched his fists and crooked his

elbows.

"Now, Herodias!" demanded Mrs. Mayflower.

"What is all of this? What did that hussy say to you?

Tell me at once!"
"Damn foolishness!" muttered Buffum under his

breath.
"Shall I tell?" asked Miss Fairchild, smiling archly

"You'd better!" said Mrs. Mayflower, "if you know what's good for you." Sternness filled the atmosphere about her.

"Give up that prescription!" repeated Buffum desperately.

Miss Fairchild stepped in front of hlm.
"You've promised me a new fur coat," she said, "and

you've been putting me off---"

"What's that?" exclaimed Mrs. Maydower horridal.
In the meanwhile, Oliver had been attracted by the facinating complicatedness of the Polosoucope, and was influering with its bustons and levers. Soddesly it seems to be suffering with its bustons and levers. Soddesly is seemen cleared, and on it appeared a picture of Buffum Mrs. Bufful mrs. But and chacking her under the chin. Mrs. Maydower was petrified with actorilament, and Puffum was for the moment parasited in the property of the moment parasited parasited with the parasited parasited with the property of the moment parasited parasited parasited with the parasited parasited with the parasited p

Suddenly a crash resounded through the room, and the picture suddenly went out. Buffum had locked the machine across the room. It lay in a far corner, a tangled wreck, and from it came little sparks and lights and clicks and whirrs, which finally died down to silence.

"Search her handbag!" Buffum commanded the policemen, following it up with a lot of incoherent growlings.

A policeman stepped over tn reach for Miss Fairchild's handbag; but she was the quicker of the two. She opened her handbag, took out the prescription, and held it up so that Buffum could see it.

"Here it is!" she exclaimed.

"Here it is!" she exclaimed.

It is suddenly crumpled it up, put it in her mouth, chewed it up and swallowed it. She laughed out in triumph; but in the middle her laugh broke, and she burst into tears. Two policemen seized her, one

from each side.

Buffum turned pale, and sank into a chair with a groan, his head down in his hands. He dropped there

groan, his head down in his hands. He dropped there for a moment, and then got up and walked swiftly about, with incoherent growlings. He shook his faits and clutched his hands in the direction of Miss Fairchild.

Miss Fairchild broke away from the two policemen,

ran up to Buffum, and threw her arms about his neck.

Mrs. Mayflower shricked and gasped.

"You used to be so nice to me!" Miss Fairchild weet

"You used to be so nice to me!" Miss Fairchild on Buffum's shoulder. "I can't stand this." Buffum kept backing away, while Miss Fairchald continued to cling to him. Everyone else in the room was tremendously embarrassed except Oliver. Suddenly, all eyest humand toward the window, whence a lood whire proceeded. A little furever helicopter slowly descended on the landing-stage. Out of it clinned the securidate on the landing-stage. Out of its clinned the window, carrying a little black case. He looked about him at the erroon in mild surroise, as though its about him at the erroon in mild surroise, as though its

were after all a part of his day's work.
"How do you do, ladies and gentlemen?" he said

er. Buffum turned on him angrily.

"This is all your fault!" he roared.
"Yes sir!" said Swift. "Anything is possible sir."
He looked over the occupants of the room, and turned

to Oliver, who looked to him the most hopeful.

"The little lady here," volunteered Oliver, "er—ah—destroyed a very valuable document. The continued

prosperity of this firm depends upon that document. The company is therefore ruined. Swallowed it, see?" Swift smiled in sudden comprehension. "Ah!" he said. "And you need the document. So

"Ah!" he said. "And you need the document. So very simple."

He looked about the room, noted the wreck of the Palaroscope in the corner without the least quiver in his composure, and opened his black case. He took out an exact duplicate of the first machine, and for a

few minutes was busied in setting it up.
"We'll set the time back to the same hour as before,"
he observed as he worked, "with you and the old doctor

he observed as he worked, "with you and the old doctor at the desk."

In a moment Buffum and Dr. Cranbury appeared on the screen, bending over the prescription. Swift

manipulated things on the machine, and the view spapared to come closer and grow larger, until it became a close-up of the prescription only, with every letter clear and plane. Swift had out this notebook and was rapidly copying down the prescription. As Buffum in the complete of the machine control of the machine. Then he tore the page out of his notebook on which the prescription was copied, and handed it to Buffum with a fourthing bow.

"There you are sir," he said. "Your prescription. This is just a trifling example of the service which the Palaeoecope can render you in your husiness and everyday life. May I put you down for a hundred machines?" he concluded, taking out his order book.

Buffum grasped eagerly at the copy of the prescription, and put it in his wallet with a sigh of relief.

"Make out an order for 500 machines," he said, 250 for our research department, and 250 for our publicity department. Come back in six weeks for another

order."

He went over to his desk and bustled busily among a lot of papers; obviously to hide his confusion at the fact that Miss Fairchild was weeping convulsively in one corner. Other did the gentlemanly thing, and went over and patted her shoulder in sympathy. He beat over and patted her shoulder in sympathy. He beat over and shock something low and soft in the effort to

console her.

As soon as Buffum saw this, he leaped up and
whirled around; he hurried over to Miss Fairchild,
brushed Oliver aside, and motioned the policemen away.

"Now Miss-" he began; "mow Peacheline, you go

nver to Kirsch and Baum's and pick you out any kind (Continued on bage 733)



The Man Who Lived Twice

By William Kober

IN the words of the sage—"there is much to be said on both sides" of the question of the advisability of uncerstally peacetraing into the furner. There are very good reasons for and against such procedure, but just the same it would be a decidedly interesting experience—and perhaps a little too exciting for comfort. Much might happen, and does in this excellent science fiction story by our new author.

Illustrated by MOREY

TWAS a job I drifted imo gradually, alowly discarding my regular duties as phylatiest at the Bureau of Standards until they were completely displaced. Ever since the beginning of the war, inventions that ranged from great practical importance. These latter were rare enough, Heaven knows, but in the more and more desperate situation of our country, no chance, however small, could be neglected.

no chance, however small, could be neglected.
So, in one way or another, I became the head of a little
"crank suggestion department" devoted exclusively to
examining the thousands of odd contraptions offered for
the salvation of the country by patriotic, but not always

quite sane inventors.

I still believe I must have been singularly fortunate, for from that stream of nightmare fantasies, in the course of only six months, came the two great inventions that were making it possible for us to meet the over-whelming power of the European Consolidation on even terms. The Bureau and I, undeservedly of course, got the lim's share of the credit for these accomplishments.

That describes well enough the situation that led me into what must be the strangest adventure ever experienced by any man. Yes, the strangest, for I have already died once, and since I am now alive, will die again, even if I do not return to that other world to fight once more for the secret of power.

There will never be a formal report of my experi-

There will never be a tormal report of my experiences. I am certain that, if I handed one in, my superriors would form an unshakable conviction that some of the more lurid specimens of my departmental correspondence, combined with a nightmare or two, were the basis for it. However, I feel it necessary to put the thing in writing while it is still fresh in my mind, lext I also in writing while it is still fresh in my mind, lext T also the property of the property of the property of the vice, when I go again, I will need a reliable account of my movements, so that I work run into myself, or as he remarked with a broad grin, "That would be very, as the remarked with a broad grin, "That would be very. But this is far a abead of my story. It all started in

One day my crank mail brought me a bulky envelope.

When opened, it proved to contain about twenty closely spaced typewritten sheets and drawings, and the follow-

ing remarkable letter:

"I have a machine capable of transmitting objects into the future. A short, inadequate description accompanies this letter. If you can bring yourself to believe that I am not hopelessly insane, I wish you would come to inspect it. I am badly in need of help, both scientific and financial, and from your

reputation and position, know you can supply both.
"I want to emphasize the fact that the machine, even in its present state of development, is certain to be of incalculable aid to our country in the present war."

(Signed) P. G. DANE.

Somehow, this letter impressed me favorably, even though I could not imagine how a "machine capable of transmitting objects into the future" could become a destructive weapon of warfare. I turned to the rest of the missive, hoping that it would not consist of the usual concoction of incorrect science and fantastic nonsense

When I had finished, I was not sure whether it was nonsense or not. Here is a digest of the contents:

Dane first gave an account of himself, mainly, as he said, to show that he ought to know what he was talking about. He had been a professor of physics at one of the larger universities for about twenty years. During and before this time, he had ceaselessly experimented upon atomic construction, trying to find a way to release the tremendous stores of sub-atomic energy present in all matter. In this he had been unsuccessful

In the course of his work, however, he had discovered a means of generating a gravity field of peculiar construction. This consisted of a central sphere of no gravity, and outside of that, a region of inward radial attraction. This field did not obey the usual inverse square law, but was instead almost constant between an inner sphere of no attraction and an outer sphere at which the force was cut off abruptly. The radius of the inner sphere and the thickness of the gravitational shell could be set at any convenient value by suitable adjust-

At this point I came very close to putting the thing aside in disgust. This man must be an idiot. In these times, working upon atomic disintegration has taken the place of the old perpetual motion search, as an amusement for fools. All the prominent physicists have pronounced it impossible

About the only thing that could be more nearly impossible, if one can compare the relative impossibilities of things that are quite impossible, would be the creating of an artificial gravitational field. And this Professor

Dane had worked with the one, and actually claimed to have produced the other! I continued to read, mainly to see what other extrava-

gant claims he would make. But as I read, I began to revise my early estimate of Dane's scientific knowledge. The rest of the document took up the problem of the generation of the gravitational field, and gave a solution for the power required, gravitational potential, and time retardation. His reasoning and mathematics were brilliant, but conservative and correct. After he had solved a few problems that had baffled the scientists of the world for a century, and with which I was familiar enough to realize that the solutions were right, I began to wonder whether Dane might not possibly be the only one of us in step with the truth.

When I had finished, there was no longer any doubt in my mind. I would visit Dane in his laboratory, and see whether he could make good his promise to give me an actual demonstration of the gravity field and its time effect. I also made up my mind to find out why Dane believed that atomic power was obtainable.

Visiting Dane was not the simple matter it would have been before the war. The enemy considered me personally responsible for the stopping of their early victorious march, and my movements were watched. There had been several attempts to kill me

As it was, two courses were open-to go alone and secretly or to arrange for a heavy guard during my visit.

Both methods entailed risks. If I took a guard, the enemy would almost certainly get word of my activities, for a number of recent incidents seemed to indicate that an appreciable fraction of our army was composed of enemy spies. The laboratory would then become a rendezvous for the most talented of the enemy intelligence, and they would hinder our work, or perhaps even obtain Dane's secret, always provided there was anything in this time machine business. On the other hand, if I went alone, the laboratory

would be unprotected, and if spies did succeed in tracing me, they could easily dispose of Dane and myself, and examine our equipment at leisure.

The risks balanced up about evenly, but I finally de cided in favor of solitary secrecy. As a measure of precaution, I did not notify Dane of my coming, but I was sure that, with the explicit directions he had given in his letter, there would be no difficulty in locating the abandoned farmhouse near the Niagara Falls in which be had set up his laboratory. My plan was to fly from the Capitol, located in Saint Louis after the burning of Washington, direct to Dane's laboratory. The start was to be made when the moon, lacking about four days from the full, set that night.

Meanwhile, I did some figuring upon the time effect of a field such as Dane claimed to create. The fundamental principle of this effect is of course well known. Fifty years before, when Einstein first proposed his theory of general relativity, he predicted, from the theory, that time upon the surface of the sun, a point of high gravitational potential, was slower than time in fieldless space or at a point of lesser gravitational potential, such as the surface of the earth. This proposition, being readily amenable to practical test, was definitely verified by a series of spectroscopic test* made between 1919 and 1928. and was one of the practical proofs of the truth of the

theory. One point admitted of no dispute-if Dane could generate a field of sufficient strength he could slow time inside the field to any desired fraction of the normal time outside. By placing a living creature in this region of retarded time, this creature, living and aging only a day, would find, upon emerging, a world that had aged thousands of years. This time travel could present no

paradox, for it would be in the strictest sense actually possible, and the workings of a natural law cannot be paradoxical. However, this sort of time travel could not be very useful, unless one preferred to spend the remainder of his life in the far future. There would be no way of

getting information back from the future to the present, because the process was not one that could be reversed. but operated strictly in one direction only. Yet it was plain enough that whatever Dane had worked out must be reversible. That was certainly the only sort of time machine that could be of use in the present.

pace more sways.

A graphical explanation of this phenomenon that is not far if the read truth is the following: Suppose time to have some of the read truth is the following: Suppose time to have some of the relations of the properties of the properties of the following factor of the their powerful fight by the opposition of insured factor of the next's gravitational field, just as any material is trying to except from the out would be restrict.

Dane Demonstrates

THIS question still puzzled me when I left in a govremment rocket ship after moon-set that night. I had taken more than ordinary procaution, and was sure that it would be impossible to trace me. No human being except myself knew where I was going; even my official superiors would not know until morning that I had left on another of my indefinitely nonlossed investigations.

I rose to about twenty-five miles, and travelling rapidly, found myself over Dane's farmhouse just as the

sun was rising.

The place was one of the abandoned farmhouses common in that region. In the early part of the war, before the discovery of the discovery of the descovery of the descent ray* put a stop to it, raiding rocket ships had frequently been able to slip over our lines from the enemy stronghold in upper New York State. The entire region had been quickly evacuated, and even now, that the danger was past, few cared to return.

As I brought my plane down, I realized how well to chosen the place was. It filled all of Dane's requirements perfectly. It cost nothing, an important consideration for Dane's lean pocketbook, was lonely enough to afford the necessary secrecy and yet easily accessible from sevreal large cities for equipment and supplies; and best of all, was close to the power lines that carried the twenty million odd kilowatts geometred at the Nigarya olant.

The great Falls of Niagara, but a few years before one of the wonds, were now only a tridle of water when rainfall was ecceptionally heavy. But for the wonder of the mighty waterfall had been substituted the greater wonder of the world's largest power pain. Fifteen two million kilowart uttables generate units span uncessingly in great chambers holowed out continued to the world of the world with the world water world on the world water world on the world water world water than the core fallen over the lip of the falls, to spend its precious energy in noise and turbulence.

This was our supply of energy, and great though it was. Dane and I were soon to find it pitifully meager

to supply our needs.

I landed upon a level space between a large frame farmhouse of the colonial type and a tremendous, strongly built, barn-like structure. Dane, attracted by the roar of the rockets, was waiting for me as I stepped out. He was the most pleased human I had ever seen, and

gave me an effusive greeting.

Dane lived in a few rooms of the farmhouse with the colored housekeeper and cook that had cared for his bashelor lodgings since his appointment to professorship. In her capacity of cook, this worthy had a substantial her been up since two ofclock that morning. As we are, base talked enthusiastically about the coming experient, and I had a good opportunity to study the man

who claimed to have done the impossible. Physically, there was nothing impressive about Dane. He was of average size and weight, about fifty, and could easily have been mistaken for some undergonal clerk, with shoulders somewhar counself from years of ample indication of the tremendous mental powers I was soon to find that he possessed. He had the exceptionally high and broad forchead that physiopnomists call the in-

dication of a powerful and logical mind. His blue eyes,

could spatide with intense animation when he was societed.
Great men are oppularly supposed to be very dignified.
This may be true enough of the general run of successful business men or politicians, in whose cases surface show of superiority is more important than the real thing. Dane was certainly not dignified. His enhancement of the contraction of the contraction of the contraction of a third. He contraction of an artist with an incredibly patient, photoing reprinted the contraction of an artist with an incredibly patient, photoing restricters that could keep him pomplies savos at the

set far apart, normally showed a calm good humor, but

I liked him from the beginning, and I believe he also liked me. This must have been so, because instead of an initial period of feeling me out before he trusted me completely, he immediately plunged into the heart of the

time-machine's theory.

same problem year after year.

He first described the method of generating the gravitational field. The principle was as simple, and followed so logically from facts that had been widely known as early as 1950, that I felt thoroughly ashamed of myself. I and the rest of the scientific world were a choice collection of puddingheads; what we had so positively called impossible had been right under our noses for over twenty years.

When Professor Dane had finished his hearty laugh at my obvious discomfiture, I asked him about that other problem—of getting information from the future back to

the present time.
"Come along," he said, "I'll run off the experiment for

you now, and you can see for yourself. Seeing's believing, you know. But seriously, I am not sure that I know just why it works the way it does, although I have a theory that seems to fit all the facts. And he would say no more about it, telling me that he would look forward to discussing that question further when I had seen the experiment.

As we walked toward the barn in which the entitionest

for the experiment was set up, the Professor happened to glance toward the point where his improvised but elaborately insulated power leads left the three hundred foot towers of the main like from Niagara. He grinned broadly, and turning to me remarked, "They'll be looking for another are-over or ground in selw hours." I stared blankly for a moment, and then the solution of a mystery that had putzled us at the Standards Bureau dawned

Only a part of the power output of the Niagara station was used for lighting, power, etc. The remainder of the available power was used in making various synthetic compounds and special explosives. The direct power and lighting requirements fluctuated between wide limits, and was always given the preference over the less pressing demands of the synthesising plants.

Now, four times in the last month, at periods when the direct demand was about one quater the output, a load that slowly raised this demand to full power had unexpectedly come on. A checkup aboved that once of the control of the control of the control of the control of current during this period. Investigation of the lined proved it quies instat, with no trace of an arc or ground that might have been responsible. Some blandt the whole thing upon apiles working to damage the line, but if this were the case, why should they have been responsible.

BUT it was a mystery no longer. Professor Dane, who could not have paid one third of the \$60,000 worth of power consumed in one of his experiments, had merely "borrowed" the power, feeling morally justified in so doing by the knowledge that it was for the good of the country. For the sake of secrecy, Dane and I decided that today's experiment would also be left a mystery, for the time being, at least.

We now entered the barn. It had a high ceilinged, capacious interior, being at least 100 feet square and giving a clear headroom of about 30 feet

The floor was in a state of clutter and mess that would have been a discredit to a burnt-down junk warehouse. Huge transformers, mercury switches, oil circuit breakers and other parts were scattered more or less haphazardly about, propped up and braced by pieces of illassorted iron and lumber until one was tempted to believe that the whole business had fallen through the roof, These pieces of equipment were connected and interconnected by a crazy maze of conductors of all sizes and conditions, some running on the floor, some on stilts, and some suspended by ropes and insulators from the ceiling

Near the center of this mess, and jarring heavily upon the general motif by a display of carefully arranged symmetry, stood three vertical cylindrical structures. about five feet in diameter and ten feet high, which had been accurately placed so that each occupied one vertex of an equilateral triangle about thirty feet on a side. The space inside this triangle was quite clear of the maze of wire that covered the rest of the floor, and in the very center of the triangle stood a sturdy adjustable tripod. upon which a thick walled plass sphere about three feet

in diameter sparkled Instrously.

We dodged and stumbled our way over the intervening tangle to get a closer view of the three cylinders, which were obviously the heart of the apparatus. They were made of an opaque, glasslike substance, and Dane explained that they were giant vacuum tubes, each generating and directing a beam of radiation toward the center point between the tanks, where the glass globe was supported. Inside of the glass globe, which was highly evacuated, a tiny pith ball was suspended upon an almost invisible quartz thread so that it bung at the very center of the globe. The apparatus was so adjusted that the field would be formed around the pith ball and inside of

the walls of the globe.

"It is absolutely necessary to provide a high vacuum in the region where the field is formed," explained Dane. "for if the field were formed in air, air molecules would constantly be falling into the outer surface of the field. They would immediately be accelerated by the almost inconceivable force there present, and hurled into the inner core at a velocity approaching that of light. Any object in the inner core would be riddled and blasted -instantly raised to a temperature surpassing that of the central core of a giant star."

The professor then led me back to where a wooden observation platform stood slightly behind and above one of the cylindrical vacuum tubes. The rear of the platform was occupied by a neat though intricate switchboard, where all the indicating meters were mounted, and

from which all the equipment on the floor could be oner-

On the front of the platform, two powerful telescopes were mounted. Looking through one, I found that it showed the pith ball in the center of the evacuated globe outlined against a brightly lit white background placed on the other side of the triangle of tubes specially for that purpose.

Looking no again, I saw the professor surveying the horrible tangle of equipment on the floor below with the greatest of pride. "I put that together all alone, with no help whatsoever. What do you think of it?" he exulted. "Wonderful?" I lied; then, truthfully enough, "I never

saw anything like it before."

The professor eyed me suspiciously, but by dint of great effort I managed to keep my face straight.

"It may look slightly untidy," be conceded generously, "but everything is placed in its best position, electrically speaking." And he proceeded to explain the workings of the entire equipment in detail; it was really quite simple when one understood the underlying principle.

This finished, the professor again turned to the board trembling with eagerness. The experiment was about to begin! Needless to say, by this time I had forgotten that I had ever doubted the possibility of performing such an experiment, yet I was quite as excited as Dane,

The professor placed his finger on the first of a row of tiny switches on the control board. With his characteristic wide grin he said. "Here goes the beginning of another \$60,000 arc-over. Watch the power meter.

He flipped the switch in. From the floor came a clattering thump as a monster mercury switch made circuit. The power meter jumped to an indication of four million kilowatts. Nothing further happened. At short intervals, to give the Niagara station an opportunity to meet the demand. Dane threw in more of the switches. until the meter needle trembled at sixteen million kilowatts. Over twenty million horsepower was now rushing into the apparatus, but there was no noticeable effect.

We moved to the telescopes and stared at the globe and its tiny pith ball. For a few minutes nothing happened to that, either. Then, the hazy outlines of a sphere of gravish darkness appeared, almost filling the globe, Its outer regions were indistinct, but near the pith ball, a definite darkening was noticeable. For the first time I saw that the suspending filament had been torn, and that

the pith ball, with most of the quartz still attached, was suspended without apparent support, still in the center of the sohere. It was resting upon the inner limit of the force field as solidly as if upon a material body Slowly, the darkness thickened. I alternately stared

through my telescope and fidgeted about on the platform as the slow minutes passed. The professor had abandoned his telescope entirely, and was so busy taking records of the readings of the various instruments that

be had no time to talk

Everything remained quiet.

Gradually the pith ball disappeared in that globe of deepening darkness; finally it became quite invisible. It was nearing the three hour point since the first applica-

tion of power Suddenly, Dane cried, "Watch closely now-it will happen any minute!" and rushed to his telescope. I

glued my eye still more firmly to the eveniece of mine. Then, with a soul wracking snap, that was sensed rather than heard or felt, the darkness suddenly vanished, and there was the pith ball again, quite unchanged. It appeared in its old position at the center of the containing globe, hung there for a moment, and then fell to the bottom of the same globe.

From a switch close to his telescope, the professor had

shut off the power as soon as the end came. But the experiment was not yet over. Dane abandoned his telescope, and began manipulat-

ing a slide rule with frenzied speed. After about half an hour of steady work he finished, glanced at the chronometer on the switchboard, and relaxed for the first time since the beginning of the experiment. He waved aside my questions, saying with a smile, "You will understand in less than fifteen minutes." In a few minutes he was on the move again. He descended from the platform, went to the tripod supporting the glass globe, and removed the globe, placing it on the floor. Then he moved the tripod to one side, and over the spot where

it had stood he placed, nf all things, an ordinary pillow. He came back to the top of the platform, smiling when he saw my face, which must have clearly shown my complete mystification. He glanced at the chronometer again, and busied himself in reviewing the calculations he had made some time before. Soon he motioned me back to my telescope, and went to his own.

Again came that queer snap that was not a sound, but suggested to some indescribable sense the release of an intolerable strain in the space where the field had been formed. Simultaneously something small and round appeared out of empty space in the same position that the pith ball had occupied during the experiment. For

a moment it hung motionless, then flashed out of the field of my telescope,

We scrambled down from the platform and made for the pillow. Dane pointed at its center. There, upon the white surface, lay a pith ball identical in size and shape with the one I had so long studied through the telescope. Attached to the pith ball was a length of

broken thread. And then I understood, Preparations VER our belated luncheon we discussed the re-

sults of the experiment. Professor Dane had the sheets upon which he had kept the record of the experiment, and the two

pith balls. "You see," he said, "that the results are exactly those indicated by the Einstein theory, until just before the field disappears. At this point, the potential of the field becomes equivalent to the velocity of light, and the theory breaks down. It is up to us to develop a theory that does account for what happens. Of course, the one fact that must be explained is the apparent reduplication of the pith ball. This is my explanation:

"When the field vanishes, the time in its core has been slowed down to zero, as is shown by these figures," and he tapped the papers. "Timeless space is naturally not amenable to the laws of ordinary space-time. As far as we can tell by our instruments or senses, it does not exist. But for the same reason, it is omnipresent-it exists in

all the future as well as in the present, "But this timeless space is apparently not stable-is incapable of existing for any length of ordinary time. As it cannot hold together, it breaks down, appearing as ordinary space-time in two different times

"It may seem strange that it does not merely appear in space-time at one particular time co-ordinate. But if it did this, the energy of the field-that \$60,000 worthwould have disappeared without a trace. This would mean the violation of the fundamental law of the universe-the conservation of energy.* From the energy

point of view, the energy of the field is spent in creating new matter; either the first or the second pith ball, there is no way of telling which

"As confirmation for this theory, I have the powerful evidence that a straightforward mathematical development, according to this explanation, gives the correct results for field-energy input and the time co-ordinate in-

terval between the two pith balls." For a week following, I worked on the mathematical and philosophical reasoning behind this theory. And at the end of that time I was able to comprehend the great-

est implication of all. If the theory were right, the second pith ball-the one that appeared later-actually existed before the first, and if it remained until the end of the universe, it would still, at the very end of time, be existing before that first pith ball,

This seems incomprehensible -- mad -- but the cold, infallible logic of mathematics stated that, if the premises of Dane's theory were correct, then this unbelievable statement must also be true. And we could see nothing wrong in the premises.

Not being supermen, neither Dane nor I could ever understand all the implications of this astounding result. As far as they concerned the practical business of time travel, however, we were able to work out, at the cost of many a headache, the following very interesting facts: A living creature in place of the pith ball would not

only appear at two times-one at the present, the other in the future-but its present self would remember all the experiences of that future redunlication upon the instant of its reappearance after the field had vanished at the end of the experiment. No physical changes, however, could be transmitted from the earlier future life to the present one. The practical importance of this action, if it really took place-a thing of which we could by no means be sure-need not be enlarged upon. All the achievements of the future were within our reach.

From our viewpoint as scientists, these practical benefits were of minor importance when compared to the tremendous fact that here we had information that gave us a new insight into the nature of the universe. Dane believed that the universe was made up of recurring identical cycles, and this theory was capable of explaining most of the facts, including that all important equation. though this explanation was by no means simple. I my-

self have another explanation.

In spite of all distractions I still remembered that my real object in coming to inspect Professor Dane's invention was the possible discovery of a new weapon of warfare. If the time theory were correct, the possibilities were tremendous. It was very likely that in the future, technical development would continue to advance. Thus, if one of us went into the future, he would not only add an extra lifetime to his experiences, but could reproduce the inventions of that future time when he reappeared in the present.

The entire business was very strange. Perhaps the most bizarre aspect of all was the possibility of living an unlimited number of lives in the future, and remembering all the incidents of each. Dane, quick as usual to seize upon the humorous side of a situation, remarked that it was quite likely that one, who went into his gravity field, would not only live an extra life, but find out all about the spirit world, and eventually help in increase its teeming billions by at least a pair of identical ghosts.

Truth to tell, neither Dane nor I could fully credit the correctness of the time theory, even though there seemed

^{*} Matter is equeldered a form of energy.

no flaw in the logic that went straight from the results of the experiment to the final conclusion. We agreed that it could not be taken very seriously until we had

actual proof. Everything pointed in one direction-one of us would

have to take the place of the pith ball in an actual experiment. Unfortunately, the time of the second appearance

would be far in the future. The time co-ordinated interval, between the two breakdown space-times, depended mainly upon the factor (mass) The maximum power

available would be the full power of the Niagara plantfrom sixteen to thirty million kilowatts, depending upon the rainfall. The mass would be that of Dane or myself plus about one bundred pounds for food and equipment. For the almost weightless pith ball, the time interval had been about three quarters of an hour. For one of us, it would be in the neighborhood of six thousand years.

This would probably make it impossible to find out what the result of our present war would be; in fact, to find out anything whatever about the good old year of

When we were discussing this point, the professor remarked that in six thousand years someone should have discovered a method of releasing sub-atomic energy. I immediately asked him why he considered this a possible source of energy, when all the scientists were agreed that atomic energy was forever fixed and unreleasable. The atomic configurations of matter (with the exception of the radioactive elements) were believed too far stable to be disturbed by any attainable forces, and therefore must remain in their present states through all infinity. Professor Dane smiled at this. "There's no real logic in that," he stated. "Nobody has any idea of what the

stability of an element, say of sulphur, really is, and neither has anyone any idea of the magnitude of the greatest obtainable force. The conclusion, that atomic power is unreleasable, comes from nothing more definite than the fact that in less than seventy-five years of blundering attempts, no one has succeeded in releasing it. But energy is there, in staggering amounts, no one can deny that. And that is enough for me. I find no need to justify my twenty years of failure by shouting that the thing is impossible.

I had to admit the validity of this argument, and we agreed that if one of us arrived successfully into the future; his first step would be to find out whether a way of utilizing a sub-atomic energy was known. If this were the case, it would be advisable to neglect everything else and devote all efforts toward getting hold of this method.

Both Dane and I realized that the greatest obstacle to technical advance was lack of power. Our present industrial development is the outgrowth of just one thingthe steam engine-whose discovery for the first time in all the ages gave the world cheap power. In the same way, the vastly cheaper and more concentrated energy of the atom would make possible far greater advances. For one, travel through interplanetary space, an impossibility with present fuels, would become very simple. As for weapons of warfare, the only thing lacking toward the perfection of any number of destructive rays was the power required to supply them. A heat ray, for instance, is nothing but plain brute power.

We often spoke of the conditions we were likely to meet if this source of power had been discovered in that future age. Dane believed that the secret would be, jealously guarded by one government, or even by one person. In any case, a curious investigator would be in great danger. However, if Dane's theory of his gravity machine were correct, in our future reduplication we could afford to take chances-he stood to lose only the value of the energy he represented, and the government would nay for that,

Naturally, we realized the tremendous responsibilities that would descend upon our shoulders if we did succeed in getting that secret. But we had troubles enough without borrowing more, about something that might never happen. And, if they did have atomic energy in that

future age, they would also have had experiences with its political and social dangers that would prove a useful guide to the proper disposal of the secret by Dane and myself.

Into the Future

NEED not go into our preparations in any great detail. Professor Dane's original equipment was capable of handling the full power available. It was only necessary to adjust the three vacuum tubes so that the gravity shell would have an inner region of no force about eight feet in diameter, which made the outer diameter of the shell something over twelve feet. To provide the required surrounding vacuum, a thick walled glass globe about eighteen feet in diameter was obtained and was suitably mounted. As the total power required for the building-up of the field around the passenger and equipment was roughly three hundred billion kilowatt hours, I had to negotiate, though with every effort to maintain secrecy, for a three months' call on an average of half the Niagara output.

Although the gravity field would have to be built up over a period of about three months; to the man on the inside this time would seem only about five or six days, since the latter parts would be accomplished with the time ratio at a very low value. Toward the very end, a day in the outside world would be merely a second in the core of the field.

With all the uncertainties of an untried machine and an unproven theory, the trip would be a very risky one. An accident to one of the projecting vacuum tubes or a leak in the surrounding evacuated globe would finish the passenger in a blaze of glory. Even if all went well, there was no telling what might happen to the passenger if the professor's time theory was wrong. As it was the only thing we had to go on, we made all our preparations on the assumption that the theory was correct

Even on this basis there was at least one danger, which could not be avoided-the landing in the future. Our equations told us that the two space-time breakdowns one in the future, one in the present-would take place at exactly the same point on the earth's surface. The "present" appearance could be prepared for easily enough. In the future, however, the ground level might have risen or fallen considerably, as the earth writhed slowly in the grip of geologic time. Our ealculations indicated that there would be no danger of materializing underground, or inside of some solid object, for the region of timeless space would drive away all matter that tried to invade it, acting as an immovable body of infinite hardness. If, therefore, the ground rose in the intervening six thousand years, the passenger would find himself at the bottom of a rather wide depression in the earth's surface, and quite safe. If, in that time, man tied to rect a wall, or nature a tree, through the region of timeless space, they would encounter an invisible but impostrable larrier. Yet, one danger remained. If unique the space of th

Both Dane and I were determined to have the honor of being the first passenger. Dane claimed it by right of having invented the machine in the first place, but I had equally persuasive arguments. Both of us could not togo, as one would have to stay behind to take charge of the complicated manipulations and to be on hand in case of an emergency. We finally settled the identity of the basenner by tossume a coin. I won.

Finally the day came to start the experiment. For the previous week, I had done very little except sleep, with the aim of being well rested for the six day ordeal

in the gravity shell.

Our arrangement of the globe was quite simple, even makeshift, but let nothing to be desired from the point of view of efficiency. A circular hole about three in simutenties. It is not the control of the control of the control of the control of the globe, to afford a comfortable entrance. I climbed through it and feeding moget all the interior. Forelesser Dane, standing on the outside, now handed in the staff use of the control of the co

This stuff inside, the professor and I shook hands through the port. He grinned and said, "Have a good time in 8,000 A. D. Good bye and good luck." A final

grip, and he lifted the patch section into place and began welding it to the globe.

The welding finished, Dane went to the control board and turned a very little power into the tubes, forming a weak gravity shell. Ducking low to avoid the lower surface of the field, I lifted item after item of the equipment into its influence. Each in turn felt the attraction of the field and was drawn up into the central portion. When the last object had "fallen usward" out of my

When the last object had "fallen upward" out of my hands, I rose to full height and was pulled up also, the sensation being very much like that of a swimmer com-

ing to the surface after a dive.

The equipment and I continued to bounce up and down for some time, for the gravity field furnished a perfectly elastic floor, and the bouncing did not stop until the air resistance had damped it out.

While I was still bouncing energetically, rising temperature and pain in my eardrums informed me that the air pressure was going up. Most of the air in the giant containing-globe was being compressed into the eight foot interior of the shell by the inward driving force of the gravity field.

In the wall of the globe was an exhausting nipple. Dane now started the vacuum pump connected to this, reducing the pressure in the outer region, between the outer surface of the gravity field and the globe, to practically zero. The field was not quite strong enough to

prevent air from its interior from leaking slowly out into this region, and finally I was able to signall that the pressure around me was slightly less than normal atmospheric. This regulation of pressure was very necessary, for when the shell disappeared, I would be projected into the atmosphere of the world of 8,000 A. D. If the initial high pressure of the air around me were not reduced, the sudden drop in pressure might easily tear my lungs and burst me like a toy balloon. A slight insufficiency of pressure was the afact possible dis-

position.

By the case is and benefited in a tasely of copyer, by the case is and lones at the britten of my live valide containing skell. The voltent journing and the case of the case o

and prove that our theories were right.

Danc was now back on the control platform. He waved at me, grinning for a moment, and then threw the switch. The experiment was on in full force! I was thrown a short distance upward as the floor suddenly became hard beneath me. The field surged into creater and greater strength, storing in its substance

the energy being driven into it at the rate of sixteen million kilowatts.

At first mething happened. Then objects in the room began to get Morr, as if I were looking through a intine glass. By the time I had set my little world to rights and gotten the zin conditioning equipment into working order, the normal white of the incandescent lamps in the laboratory had changed to a dashy, evep-animal lawesder. After about an bour more, this also faded, and of the centise world nothing remanded but an and of the centise world nothing remanded but an lamp and tried to read, but was not very successful, for I was still as nervous and immediate as ever.

This state lasted about fifty hours by my watch; time that I spent very uncomfortably indeed, although I had sufficient food and water, and books and the air equipment to keep me busy. Then, after having fallen asleep for the first time, I awoke to a new phase. The room was suffused with an even, dull red light, partly obscured by a similar glow coming from the walls of the glass globe around me. This light was, I knew, the ordinary long-wave heat radiations given off by bodies at the room temperature; the gravity field had attained a potential capable of stepping up their energy and frequency to the point of appearing as red light. In this red glow, a brighter red human figure frequently appeared, dancing about with incredibly rapid motions. This, of course, was the professor watching over the apparatus. His body temperature was higher than that of the other objects in the room, accounting for the brighter color, and the time effect of the field was speeding up all outside motions. A check with a chronometer in the laboratory outside showed that my time rate was now one fiftieth of the normal.

The red glow strengthened slowly, fluctuating markedly in brightness about once each half hour, because I looked about for some sign of civilization, or some indication of the direction it would be best to take, for I would have to keep moving if I did not want to freeze.

of the difference in temperature between day and night. Many more hours passed, and the red shaded slowly into a white very much like that of daylight at the begiming, except for the masking glow of the glass sphere itself. Slowly it changed through blue and violet, and then faded as its frequency passed beyond the range of the eye. When last seen, the throb of day and night

the eye. When last seen, the throb of day and night took less than a minute.

The experiment was approaching its crisis as the po-

tential of the enclosing gravity shell rose slowly to the zero-time value. According to my watch, I had been in the field 150 hours, and this was about the calculated time, although the uncertainly of the power supply made it impossible to calculate the exact moment. My nervousness had passed, but I was now wild with enthu-

siastic anticipation.

Then, suddenly, it happened.
The surrounding blackness flashed a bright green about me, and the bottom of the sphere simultaneously cased to support me. I tumbled a long distance through a green world that lashed at me viciously from all directions to the accompaniment of loud snapping and cracking sounds. Then there came a blinding flash of white light, and that was all.

The Suicide Dive

HEN I came to again, I lay on a carpet of dead trees. An oxygen cylinder had dug itself a deep depression in the mold a few feet to one side. I found it extremely painful to move, and my hair was sodden with half clotted blood, which had come from a still bleeding cut on the top of my head. I was

literally covered with bruises, but my clothing had stood up remarkably well, and must have protected me no little. My left leg and side, upon which I must have landed, were very stiff and painful, and I was sick and giddy from the fall and from the loss of blood. With a terrific effort of will, I lifted myself from the

ground, and rather to my surprise, found that I could limp along. I spent a few hours setting myself to rights, and also succeeded in nearly stopping the flow of blood

from the cut scalp.

I now felt somewhat better, and began taking stock

of the situation. So far, Dane's theory seemed to be working, for I was alive, and since this was not the laboratory, it ought to be 8,000 A. D. On this assumption, what had happened could be ex-

plained easily enough. In 6,000 years, the ground had receded, and a forest had grown up where the farm had been. The presence of the forest which had broken my fall was a great piece of luck, but I decided to be worked out the next time, if there were to be a next

My next move was obvious. I would have to find civilization. The air was cold, just above freezing, I estimated. In my present condition I would not last long, unless I could find food and shelter. What I really needed, I thought ruefully, was a hospital or its eightieth century equivalent.

But even forgetting these immediate considerations, I had come to the year 8,000 for a definite purpose, and the sooner I got to work on it, the better. But information about teachnical subjects would be found in a city, not in the midst of a forest such as this I would have to keep moving if I did not want to freeze.
On one side, the forest seemed to thin out, and I started
limping in this direction.
I soon found myself upon a large outcrop of gneis
rock, quite bare of trees. Behind me was the forest.

In front, the rocky ground fell away at a sharp alope, almost a cliff, for about three hundred feet, and at its foot was a continuation of the forest.

My position of vantage gave me a wide view over

My position of vantage gave me a wide view over the forest below, but, as far as the eye could reach,

there was no sign of a break in the rolling expanse of tree tops. The sun, upon my right, was low on the horizon; I was sure it was setting. This was a pretty fix! What on earth was this forest doing here? According to our preconceived notions,

doing here? According to our preconceived notions, the world should have been highly crowded in the 80th century. Yet here was an expanse of many square miles without a sign of human habitation, Worst of all was the predicament this left me in. At

Worst of all was the predicament this sett me in. At the very best, I would have to travel several days before I could get clear of the forest, and I very much doubted if I would be able to make it in my present state. Death from exposure and exhaustion in a forest —a fine ending for a promising adventure.

Just then, my eye was attracted by a moving spot in the sky, not far from the sinking sun. It appeared to be an elongated sphere, was flying at about 1,000 feet, and seemed to be headed directly for my position. Almost at the same time I noticed what appeared to be a much larger ship, with ving surfaces and otherwise looking very much like a rocket ship of the tweentieth centure, flying high over the first. I judged its altitude centure, flying high over the first. I judged its altitude

to be over 15,000 feet.

Slowly the elongated globe came nearer. It was of very peculiar construction. Its main body was an almost perfect globe, about ten or fifteen feet in diameter. To this was added a tapering tail. In general proportion the whole was strikingly like a raindrop—the per-

tion the whole was strikingly like a raindrop—the perfect streamline figure. As it approached, at about thirty miles per hour, the tail pointed almost straight down, the blunt nose leaning slightly in the direction of motion.

I hastily showed together a pile of dead wood, intend-

ing to make a fire to attract the attention of the flier, for here was a good chance to get out of my preficament. As I fumbled for a match, I looked up again. The raindrop was only about a mile away.

Suddenly my attention was attracted by a heavy, drumming roar accompanied by a thin scream of rising pitch and intensity. I searched the sky to see what the source of this sound could be.

The rocket plane I had noticed before was almost

overhead, but its nose pointed straight down. Even as I looked I could see it grow in size as it hurted straight toward the earth, full power and gravity driving; it down at an enormous and constantly increasing speed. The scream grow into an intolerable, car-splitting whine. I was held pastlysed by the bortring ornareds of that that stupendous dive. I could only marvel that the balant's stubby wings were not stripped from its heavy leant's stubby wings were not stripped from its heavy

Down it tore through the protesting air, tracing a line across the sky that my eye, involuntarily anticipating, traced to its final end in the forest below. But the

skin did not complete that track to doom. Suddenly, with an added thrill of horror, I saw that the lazily cruising raindrop flier, apparently unaware of what was going on, had drifted full into the path of destruction. And, rushing down upon it like a thunderbolt, came the diving plane. Almost full it struck, or seemed to strike upon an invisible shell that surrounded the raindrop flier at a 300 foot radius. Driven by the awful momentum of its three mile dive, the plane hit deen into

this elastic shell. The blow hammered the raindrop flier down on the forest below my point of vantage. But it did not touch even the tops of the trees. Instead, the mysterious protecting sphere that surrounded it left a great circular

mark of trees and branches thrust aside and broken. The flier itself never touched the ground. Instantly it rebounded, like a rubber hall, rising al-

most a mile into the air. But some serious damage had been done. As it rose, the raindrop began spinning end over end and, at rapily increasing speed. When it came down again, only a few hundred feet in front of me, it had become a solid-appearing, flattened suberoid, such was the speed of its rotation. And when it struck, its elastic protecting shell was gone, and it drove through the treetons and into the ground beneath with a rending crash loud

as a thunderclap. But what of the rocket plane? When it struck, it had bounded off, slightly downward and to one side, most of its great momentum communicated to the decentively massive raindrop by the collision. It was now maneuvering crazily, zooming, diving, rolling, high in the clear

pale blue of the evening sky I do not know whether the controls had failed or the pilot been rendered unconscious by the shock, and of course, no one will ever know. I watched the wild evrations until the plane drove into the treetons about a mile behind me, at the end of a wohlling dive. Then all was quiet and peaceful again, and the serene, empty sky seemed to have forgotten that only a few moments before it had held two fine ships, that now would never

fly again. I was brought back to my immediate problems when the match burned my fingers. Just before the first sound of that dive. I had lit the match, and it had burned on, forgotten, until it now saw fit to recall my attention to its presence. I blew it out. It was of no more use to me. Since it had been struck, the rescue it had been intended to call had been wiped out of the

sky.

But what had been the purpose of that suicidal dive? The striking of the raindrop could not have been accidental-that would call for too improbable a coincidence. War?-no-I had seen enough of the real thing to realize that the actions of neither party could be explained on that basis. Then, there was the great difference in design and motive power between the two ships

At this point I was again interrupted by the scream of torn air. This time, the sound came from the direction of the setting sun. A half dozen more raindrop ships came tearing through the atmosphere and stopped abruptly over the broken forest above their wrecked sister-ship. One dropped through the tree-tops apparently to investigate the wreck. In a few minutes it reappeared. Meanwhile, the other raindrops had been hovering at an altitude of about 500 feet, blunt noses pointed straight up. As the sixth joined his fellows

all turned rapidly about a horizontal axis until the tails pointed straight up. For a moment they fell. Then they steaded in their new positions, Dizziness ended. But the forest beneath! The trees writhed into brittle husks, and a great puff of steam went up, hiding the fliers. In a minute, the steam disappeared, and

there was left a vast circular depression, ringed by flaming forest in which a lake of molten earth and ash hubbled and seethed. The heat struck me like a blow, and drove me back

into the forest. On the top of the cliff, the forest was bursting into flame in innumerable places from the terrific radiation of that lake of heat. Desperately, I hopped at my best speed along the cliff line, trying to outflank the fire. And as I ran, a single thought

echoed and re-echoed through my mind: "Atomic power -they have atomic power!

My effort to outflank the fire was woefully unsuccessful, and I was forced into taking a diagonal course. Do what I would, the wind was always nearly behind me and the fire marched after me, hot and choking smoke giving me a foretaste of my probable fate. This was out of the frying can into the fire with a vengeance The sun had set, and what little light was left was

obscured by the cloud of steam and smoke swirling above and around me. I limped along. My life was worth over three million dollars, and I was obliged to make every effort to save it. But crippled and tired as I was, I would be unable to outrun the fire for any length of time.

The effort was probably vain.

Because of the denseness of the forest, there was little undergrowth, and the going was fairly easy, or would have been if my left leg had not been almost useless. Considering the details of my short existence in 8,000 A. D., I became more and more convinced that fate had been giving me a dirty deal. This made me angry, and with every step I took, my anger increased

Then I ran across an asphalted road, obviously a park walk. It seemed to go more or less in the direction that interested me, namely, away from the fire, so I decided to give my luck a chance to redeem itself and struck out along the walk

I had scarcely limped a dozen steps when someone called, from a short distance behind, "Hello! How did you escape?" I looked back. In the smoky twilight I could distinguish a figure trotting down the road. It soon caught up, and fell in step beside me. The situation called for tact. I was certainly not

able to carry on an intelligent conversation on the current events of the year 8,000 A. D., and to explain the real reason for my presence was out of the question. Luckily, the stranger had spoken in perfect twentieth century English; at least my speech would not betray

So, answering the question put to me, I croaked, "We haven't escaped yet," and waved toward the rear. The fire had in truth gained considerably, the wind seemed to be freshening. The smoke was now so thick that both of us choked and coughed continuously.

"It's only a short way to my ship," choked my companion, and started to run again. I did my best to keep up, but after a few steps I got my weight awkwardly on my had leg, which promptly folded up, and the pain or the fall put me out for the second time that day.

Information

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THEN I came to again, almost complete darkness surrounded me. But the air was clear, quite free of smoke, and I seemed to be lying on a soft couch. For a time I wondered hazily what had become of the fire. Then it occurred to me that this was the cabin of the flier which my companion had mentioned. As final proof, there came from the outside the muffled, drumming hiss of the driving rockets. familiar to me from years of travel in similar planes

back in my first life in the twentieth century. I looked about more carefully. Toward one end of the cabin was the faint glow of an instrument panel, and to one side was a small, stubby winged model of a rocket plane, glowing phosphorescently in the dark. In the faint glow. I made out the figure of the pilot stated between the panel and the glowing model, and with one hand frequently changing the position of the model slightly. I realized that the model was a graphic control-a change in its position causing a similar change in the flying altitude of the plane. This particular application was new to me, but I immediately appreciated

its simplicity and efficiency. I tried to get up, but a large majority of my joints and muscles put in a vehement protest, and I gave up the idea. The pilot, bearing the movement, snapped several switches on the instrument panel, then rose and came toward me. The room became brightly lit up, and at the same time curtains came down over the lookout port in the front and over windows lining the

sides of the cabin. I don't know that I had formed any definite ideas about the appearance of my companion; certainly there was little enough to judge by in our meeting in the darkness and in the smoke of the burning forest. But somehow I had a strong impression that he was a young

So, seeing him clearly for the first time, it was with something of a shock that I realized he was a decidedly pretty young woman. Broad shoulders, low pitched voice and closely cropped hair had combined to deceive me in that first meeting.

She smiled at me radiantly, and after making sure I was comfortable, began to praise my courage and skill in handling rocket planes in the very highest of terms. Naturally, this pleased me immensely, but I was at a loss to know just what I had done to deserve this praise. The most heroic act I could recall was my fainting there in the forest and putting this same young woman to the trouble of lugging my not inconsiderable

weight some distance to the plane. Finally I got a clue. "I was so a fraid you had been killed in that terrible crash," she said, and her troubled eves and involuntary shudder brought back to me, with startling clearness, the vision of the rocket plane tearing into the tree tops in that last, uncontrolled dive after its deliberate collision with the raindrop. So that was it. The girl thought I had been the pilot of that plane. No wonder she admired the daring and skill of the man who guided that plane, and in spite of unnerving noise, vibration, and a speed that must have rendered the controls almost useless, had been able to dive three miles and strike with the accuracy of a bird of prey.

It was really a piece of luck to be provided so readily with a very flattering identity, but I hated to take advantage of it. Still, I had more than my own feelings to consider. After all, the success or failure of my country in the war might very possibly depend upon my taking advantage of every opportunity here in the year 8,000. All the same, it made me feel rather despicable

to do so. But such minor scruples were quickly forgotten in

the very difficult task that now lay before me. Knowing nothing of this future world, I would have to keep up my end of the conversation without arousing suspicion, and at the same time get as much information as possible about the general state of the world, the identity of the people of the raindrop fliers, and the likelihood of getting hold of their method of releasing atomic energy. Aided by the unsuspecting admiration of the girl, the excuse of my injuries, and what I believe to have been a masterly handling of the conversation on my part, I did surprisingly well at this almost impossible task. A radio which made occasional short news speeches and several small newspapers that happened to be on hand also helped remarkably, for both announcer and reporter still retained the old, familiar failing of giving half the previous history of the world as a prelude to each piece of news.

Naturally my information was rather sketchy, and I am sorry to say that from what I got, I was unable to form any clear idea of the social system of the eightieth century. It might have been almost anything. I was also unable to get any historical information concerning a certain war, date about 1975.

But I did get all I wanted about the people of the raindrop fliers, and other essentials. First, the date was 13-13-8117. Fortunately, whatever had taken the place of month and day did not interest me. The year gave final proof that Dane's theory was right. So much for that. The rest of the story was strange enough.

About ten years before, the first raindrop ship appeared suddenly, out of nowhere. It was large, about 500 feet in diameter for the globular portion. It was not driven by rockets or any other visible means, but tests showed high ionization of the air on a line with its tail. This ship merely cruised about, covering all of the earth's surface in a leisurely and careful survey, and after about a year, finished and left for parts unknown. It was impossible to get the stranger to communicate, although all sorts of schemes were tried. Whoever or whatever was inside paid no attention at all to any of these efforts. Curiously disposed private or government planes found it impossible to get within 1,000 feet of the stranger, they simply encountered an invisible but stiff elastic wall which they could not penetrate.

Scientific opinion was fairly well agreed that this was a visitor from space, and that its motive power was obtained by either the partial or complete disintegration of atoms. The elastic wall they could not understand, but I recognized in it a form of gravity field. which I could have reproduced readily. That Dane's discovery was unknown does not augur well for the success of the plans we have made for operations in this, the twentieth century. However, we will try to carry them out anyhow.

But to return to that future are and the non-terrestrial raindrop ship-for several years no further sign of it was seen. Then, one day, about two thousand large ones and a number of small ones about ten feet in diameter appeared at various points on the earth's surface. Without waste of time or ceremony, they immediately began raiding libraries, museums, and factories,

removing every single scrap of the contents of every building upon which their choice fell. In the first few raids, everyone in or near the raided places was killed, death being caused by some high frequency radiation that caused air to fluoresce a brilliant violet in its presence. The government, however, was soon able to make up a list of places likely to be raided, such was the system with which this work was carried out, and after that, everyone cleared out of dangerous buildings when a raider appeared.

Naturally every effort was made to destroy these unwelcome guests, but neither bombs nor artillery could penetrate the protecting and invisible shells to any depth. There was nothing to do but hope that the visitors would get tired of this sport and go away.

Finally, it seemed that this hoped for end had arrived. Gorged with plunder, practically all of the ships left for parts unknown, leaving only a few of the ten foot

variety behind.

But the following jubilation was not long lived. After a few weeks, the raindrop ships returned in full force, and began to prepare for a new phase of activity. This had just recently gotten under way, and was quite in keeping with the previous, heartlessly logical methods of the invaders

The large ships gathered at the equator and formed a ring which completely encircled the earth, the individual ships being about two thousand miles high and about twenty miles apart. Then each ship turned on two wide, flat fans of that violently fluorescing radiation that meant instant death for any living thing that came within its scope. These individual rays, joining those of the ships to either side, coalesced into two solid walls of impossible radiation.

Each ship then began to increase the angle between

the two rays it contributed, one to each wall. As a result, the walls moved along the surface of the earth, one from the equator to the south, the other to the north

The purpose of this plan was plain enough. Evidently the invaders had decided that the earth would suit them as an abode, but had found that certain organisms would be unhealthy. The answer lay in a complete and systematic sterilization of the whole earth, since the harmful organisms were spread all over its surface, and probably lived as parasites in animals and plants. The system they had adopted left a sterile zone of gradually increasing width on the earth's surface, far below its surface, and in the air above. The zone was completely closed, since the two ray walls intersected below the points of coalescence, and since the radiations had such a tremendous penetration that the effect could be noticed after the wall had gone completely through the earth and emerged on the other side.

rate only a few hours before my arrival. Travelling at over 100 miles per hour, the walls had already sterilized a zone 1,500 miles on each side of the equator. A small portion of the population ran before the raywalls, but the rest calmly declined to move merely for the purpose of prolonging life for a few hours, and died in their homes when the walls swept over them. I thought how this courageous good sense was unlike the wild panic that would have seized the humanity of my time under similar circumstances. In some way, the human stock must have been improved greatly in the intervening six thousand years.

By a strange coincidence, the rays had begun to sepa-

There was no chance of stopping the ray walls. Of course, scientists had been working, since the first advent of the invaders, for an offensive or defensive weapon that would prove effective. Their efforts had been unproductive for ten years, so that there was little

chance that a few hours more would bring any belo

from this direction. My companion had been visiting near the equator,

and when the purpose of the invaders became clear, had left to join her family, which lived in the far northern part of North America. On the way, she had noticed a giant transport plane following one of the scout raindrops and keeping about three miles above it. Her curiosity aroused, she had joined the procession, flying low and off to one side. Then the transport had plunged, and the rest I knew. The girl, hoping against hope that the pilot of the plane which had made the first successful assault against the invaders was still alive, had landed her plane as near as possible to the scene of the crash and started on foot for the wreck. So came about our meeting and the mistaken identification of myself with the pilot of the diving plane.

When the girl came to this point in her story, she asked me whether I had hoped to accomplish anything in addition to just destroying one of the enemy. Now, my business in the future, and a serious and urgent one it was too, was to get hold of the secret of atomic disintegration. As soon as I had heard of the unpleasant attitude of the invaders, who alone possessed the secret I had begun searching about for a way to crack the hard shells of their protective screens, so that I could get at the machinery. Evidently the very extraordinary man who had piloted the rocket plane had set the same problem before himself, and solved it, too, and in a very brilliant way. So that when the question of motive was put up to me, I was able to reveal my real purpose, the filching of the secret of atomic power. Very fortunately, my mission and the only salvation for this future world both led in the same direction.

Strange as it may seem, when I thought of this world of 8,000 A. D., I did not picture the teeming millions of inhabitants, but thought rather of the one who was with me in the plane, talking bravely, even lightly, of the things that spelled almost immediate death for her and for those she loved. I suppose the reason for this line of thought was that she was the only representative of this world I had yet seen, the others were still hard to imagine as actually existing, real people.

Success and Failure

NFORTUNATELY, it would be impossible to duplicate the diving assault. The invaders had naid no attention to the people of earth because they thought them incapable of either harming them or delaying their program. Now, they had found one of their ships wrecked by violence, exactly how, they could only guess. Radio reports confirmed my earlier judgment that the scout raindrops would try to find out what it was that had done the damage. Report after report came in, giving eyewitnesses' accounts of the sweeping of an earth plane with the fluorescent ray, followed by the capture of the plane with some sort of force projection, and its removal to a quiet section for examination.

Try as I would, I could think of no way to break the

invader's defenses by direct assault. The need for baste was franking and I finally made up my mid to try a very dangerous trick based upon the enemiel's suddently developed curiotify concerning the contents of scheme would give me postession of one of the scott radintops, and, I boped, the severed stamic disintegration. Unlimited power would make our time machine very simple to operate, and I was convinced that in one way or asother, the possession of this secret would make constitute the possession of this secret would make constitute the possession of the secret would make

The ambitiousness of these plans, in which I was the key in the welfare of two worlds, did not strike me at the time. I was far too busy with the problem itself to think of the implications of success or failure.

I explained my plan to the girl, advising her to leave the plane and allow me to go through with my wild plan above. She reluced to go, maintaining that we plan above. She reluced to go, maintaining that we injure of the if I slind, death would be guita as certain. Of course, this last was not true, for I could come back gains, but I could not contraded in whichen gloig little again, but I could not contraded in whichen gloig little confusion as I tried to work out a counter attack for this argument, he managed to start go on the paraciate that was an integral gard of the plan. And while a counter attack the counter attack of the counter attack and the counter attack of the counter attack.

The cabin had long ago been darkened and the shutters let up, and now the faint light of early dawn was coming through the windows. We were flying slowly at about 20,000 feet over a white expanse of comparatively level, treeless, snow-covered country. Suddenly my companion, glancing idly out of a rear port, cried, "As cout plane is after us." And the plan I had worked

out was our only chance of exage. "Jump," I said, "and drop as far as you dare before opening the 'chute," and I leaped for the cabin door, stiffness forgotten. The girl stopped only to set the control for an unmaintainable vertical climb, and then went for the door also. The Boor pitched violently as the plane furched into the zoom, but she managed to catch the edge of the open door. I threw here does not not call the door. I there were the control to the zoom of the door. I there were the call the ca

with a single lunge, and followed myself. That fall was easily the most unpleasant experience of my stay in the future century. I tumbled from the very start, and never saw anything, plane, or raider, or ice fields. As is usual in a fall, my reflexes went wrong under the unfamiliar conditions, and tried to run the reasoning part of my brain into the same panic they were in. The icy wind tore past my face and body in unbearable torture, and I think I covered my eyes with my hands to keep them from being ripped out of their sockets. Breathing was out of the question, not because there was not air enough, but because my diaphragm, with gravity gone, had forgotten its function. Even the well-trained muscles of my arms were nearly beyond my control. It required almost superhuman effort to maintain a vestige of control over my brain, but I knew that if that was lost, both I and my plan were done for. Calmly, in that one quiet corner, I estimated the distance I had fallen. Stopping too soon meant almost certain discovery, stopping too late, death on the ground below. But when I decided that the time had come, I had to spend precious moments in getting control of my right arm, tearing it away from my face against what seemed a will of its own. Finally, it found the ring and palled. The Chute caught the sir. Immediately the harness tightened with a snapping. There was the parachuse bellying above me. Below, the ground was less than SOO feet away. I looked frantically for a sign of the girl, Had she, enjoyed similar good fortune? Yes! There, above me and a snowdrift, and was there to be other when he came as snowdrift, and was there to be other when he came

down a few moments later.

We were frozen through and through, but quite happy. So far the plan had worked perfectly—the danger from the violet ray and the danger of the dealinger from the violet ray and still. The sudders had been upused safely. But had the raider seen our plains at all The sudders and the safe seen our plains at all The sudders and the safe safely. But had been upused to the safely safe

point reasonably close to our position, we would freeze to death.

We did not see the plane until it was less than 5,000 feet high and almost overhead. The power was still on full, but it drifted straight down, the raindrop filter close to its side holding it firmly against the pull of the rockets. We dug into a snowdrift and watched them land on a level stretch about a quarter mile to one side

and about 150 feet apart.

A port of the raider opened, and two figures in air suits emerged. They looked very much as humans would in a similar rig; it was certain that they walked on two legs and had two armilike members. They moved slowly toward the rocket plane, which had landed upright and whose rockets were still going at full blast. Here was my chance. According to my plans, which

had so far worked like a charm. I waited until the figures had entered the rocket ship, and then, leaving the girl hidden, began moving with as much caution as was compatible with haste toward the abundoned raindrop. I was about 200 feet away when both of the raiders emerged from the captured plane and instantly saw me. There was nothing for it but to beat them to the raindrop.

the raindrop.

I had cowered less than one quarter of the distance
when it became plain that I would win by a large
margin. Then the two stopped, and each using the left
armillee member, produced two regulation long barrelled
automatic pistols and started banging away. At the last,
the plan had gone wrong. Bullets sipped all about me.

O NLY a few more steps to got Then, someone with a dush hit me violently on the back. I looked around the step of the step of

I tumbled into an almost spherical room about eight feet in diameter. The front hemisphere was of clear crystal. Projecting from a flattened region in the rear to a point about three feet from the front crystal wall was a stout column. On the end of this, a slender rod of metal about six inches long was mounted in a ball gand socket joint. A foot below the end of the column, a carefully graduated wheel was "mounted, turning a carefully graduated wheel was "mounted, turning

about an axis inside of the shaft. This was a type of control with which I was familiar-I had developed one almost like it for the government ships back in 1973. The wheel controlled the power applied, and the small rod caused the ship to rotate in the same direction as its deflection, and at a rate proportional to the amount of deflection from neutral.

I turned the wheel slowly, applying power. The ship started rolling over. I reached for the control rod, but it was so badly blurred that I fumbled for it interminably. The ship lurched violently, and I was torn from my weak hold on the column and dumped to the flattened floor at the bottom of the sphere. Through the glass covering I saw banks of countless instruments, which I had not noticed before on account of the darkness. Then my vision blurred, cleared again,

and faded entirely.

I felt that I was in a pool of warm water, very comfortable. But when I stretched luxuriously a blast of fire seared through my chest, bringing me to full consciousness sharply. I lay huddled in a pool of blood in the bottom of the sphere; remembered everything. A hot sun was shining through the crystal hemisphere above, full upon me. Without it, I probably would never have revived.

Up there were the controls. I would have to reach them, then tie myself into position. A look at the airlock showed that it was closed tightly, probably by the lurch at the start. After long and painful effort I succeeded in climbing to the controls and fastening myself into position with belts provided for that purpose. I depressed the directing rod, the ship's nose spun down, and the horizon swept into view. The ice fields were gone, and in their place was an unbroken stretch of sea, far, far below. The sun rode high in the sky.

I looked at my clothing; it was stained with great blotches of dried blood. I ripped open my shirt. There, low on the center of my chest was a blue rimmed red pucker which frothed red bubbles with every breath. I looked at it impersonally; knew there was another like it on my back. I felt a mild surprise that I was still alive, but knew there would not long be occasion for

that surprise. My three million dollar extra life was gone beyond hope.

I thought of the plan which had worked so well until the very last moment; of the girl, alone on a lost northern ice field with two merciless beings from another world, armed and angry; of the atomic machines that were only a few feet away but which I could never reach and examine; and began to seethe with impotent rage. Everything had gone wrong, and it was too late

to help. Then I remembered the ray walls, and I knew what I could do. I looked carefully at the control column. Between the directing rod and the wheel were set three small locking buttons. I dropped to the seat and tried them. The first controlled the repulsive screen, and I locked it in and allowed the ship to sink until it floated on the screen about 300 feet above the water. I turned the ship slowly until the transparent nose pointed straight down and then set the second button. A circle of sea directly below boiled violently, and the ship jumped into the air from the reaction of driving out the heat rays. The third button caused a similar jump due to reaction, but it controlled the violet ray, which because of its great penetration gave no noticeable heating effect.

I turned the power control wheel to its maximum and beaded southward, as nearly as I could judge from the position of the sun. The hull vibrated in a high pitched scream as the streamlined ship tore through the air. The scream weakened as I gained altitude; finally died. The sea raced beneath me, and sank further and further away.

After a time I considered it necessary to begin slowing, and turned the ship about so that the driving tube, which pointed along the streamlined tail, could oppose the now excessive speed. The ship was almost at a standstill when I turned again, and saw, far below and in the distance, the violet shimmer of the ray walls I had sought. Carefully avoiding the path of the rays, I soon came in sight of the line of giant ships that maintained the walls. Casually I approached the nearest one; it did not object to my presence. A few seconds later the 500 foot hulk was a globular drop of incandescent metal, falling through airless space to the earth. This efficient action pleased me immensely. I turned my ship and headed toward the next in line,

at an acceleration that started the blood oozing through

the wound in my breast. That was the last I can clearly remember. Thereafter, time was measured by centuries of arony as I drew and expelled each breath. But my will was driven by a single purpose-destroy, destroy, destroy-and in an occasional clear interval I managed to keep my ship flying low over the line of monster raindrops. Both rays were on continuously, and I think I missed very few in that line as I swept along. It never occurred to me to wonder why the invaders put up no defense-I think now that the ships must have been automatic and controlled by time mechanisms or from a distance. No provision had been made for an attack.

Finally, in one of my better moments, I saw the line below breaking up, the ships fleeing in all directions before my single tiny scout. And then the outer world was slowly submerged in a rising sea of pain.

Consciousness came back slowly, but the pain was

gone, and I felt a perfect comfort such as I had never known before. I opened my eyes. The transparent nose of my raindrop showed a sky of black velvet, with a slowly moving procession of bright points. Also part of that slow parade was a small, brilliant white crescent-the moon-and a tremendous, somewhat loosided ring of light-the earth. My ship, spinning slowly end over end, recled off this panorama endlessly. I tried to reach for the directing rod, to regain control, but I could not move my arm, weightless though it was.

My mind was very clear. The ring of destruction had been thoroughly broken, and it would take months to reorganize it, if ever that scheme were tried again, My trip had not been in vain. The secret of disintegration had eluded me, but the short day I had spent in this age had not been without success: soul-satisfying destruction. I thought of the girl-I did not even know her name-the only inhabitant of this world I had seen, and resolved that when I came again, my first effort would be to rescue her. I wondered what she thought of me, flying away and not returning,

Looking back over my actions, I found not a single cause for regret-not a single mistake. My hand had been forced from the beginning, and with better luck I would have gone far. Even with things as they were, I had no cause to complain.

(Continued on page 733)

Captain Brink of the Space Marines

By Bob Olsen
Author of "The Ant with a Human Soul,"

"The Man Who Annexed the Moon," etc.

TO us it may seem inconcrivable, at first thought, that life can exist in the nethermant depths of the occase, but more and more we learn that some form of life, especially adapted to the pressure and conditions of the very deep seas, it present there. By the same token, the fact that atmospheric and other conditions are not similar to those of the Earth does not necessarily mean that so form of life is possible on another plant. There may, quite conceivably, be intelligent life on either Venus or Mars, or even on our fair satellite Lunabungh, of course, such life counds be easily different from our own. Bob Olsen's conception is exceedingly well thought out and the stary makes excellent reading.

Illustrated by MOREY

From Ganymede to Titan

The door of his rocket-ship hangar. Captain Britis, Jabe Shin Lindy at the Lindy and the Lindy and the Lindy at Lindy at the Lindy at L

wonder which the officer asw.
The sun was visible also, but it was a shrunken, faded sun, scarcely larger than a golf-ball. It was no brilliant enough to quench the stars, which spattered the beavens with their wan points of light. In addition to the sun, the stars and the large plane, no less than five of Jupiter's nine moons were visible. I've of them were triple and the sun plane, and the large plane, no less than five the plane of the sun plane of the sun plane of the sun plane. The sun plane is the sun plane of the sun pla

of the sun, while the other portion was illuminated more brightly by the colorful glow from Jupiter. Callisto, the largest of the trinity, displayed a full circle of pale but lovely luminescence. Brink's attention was arrested by a ghostly whisper

which seemed to leap mysteriously out of the rarefied

"Seeking Captain Brink1 Seeking Captain Frank Brink!" At the sound of his name Captain Brink touched the

At the sound of his name captain Brink touched the button of his visaphone, a small fait object shaped like a cigarette case, which was held firmly against his broad chest by the crossed straps of his service belt. "Captain Brink reporting," he announced.

Instantly the head and shoulders of an elderly man materialized in the air two meters in front of Brink's eyes. It looked marvelously substantial and life-like, yet it was not projected on anything resembling a screen, nor was the image supported in any other way.

nor was the image supported in any other way.

Recognizing the grim, weather-heaten features of his chief, Colonel Steiner, Brink clicked his heels together and saluted precisely.

"Captain Brink, at your service, Colonel Steiner!"

"At ease, Captain Brink. I have an important matter to discuss with you. Kindly report to headquarters at once."

The young officer unwound the translucent flaps which were wrapped about his sleeves, hooked their ends to



AMAZING STORIES small rings on his thighs and held his arms out parallel

to the ground, thus stretching taut the triangular wingmembranes between his side and his extended arms. In each band he held a cylinder, by means of which he could operate the small gravity-nullifier on his back.

As the motor started to drone, Brink gave a little leap and soared blithely into the air. At an altitude of a hundred meters or so, be leveled off and flew swiftly toward the distant buildings, his artificial wings fanning the air with rhythmic, sweeping strokes. In a few minutes he had reached a point where he could easily read the inscription on the roof of the octagonal edifice toward which be was winging:

Earth Republic Space Navy Internlanetary Outpost Ganvmede-Jupiter System

Bringing his arms to his sides, Brink fell like a wounded bird until he was only about twenty meters from the ground. Then he spread his wings, described a nest loop and alighted gracefully on the roof of the building. Dropping through a tran door, he walked briskly to Colonel Steiner's office.

Motioning for Brink to make himself comfortable in

a chromium-framed pneumatic-cushioned chair, the Colonel began, "This time I have a very difficult assignment for you, Captain,' Brink's eyes sparkled as he declared, "I'm glad to hear that, Sir. It's nearly a month now since I did any-

thing that could be classed as exciting." "Don't worry," the old man grinned. "You'll probably get plenty of excitement on this trip. I'm sending

you to Titan." "To Titan?" Brink exclaimed. "Surely you don't

mean the sixth satellite of Saturn, do you?" "That's precisely what I do mean."

"But Titan hasn't been explored yet. We don't even know if it is habitable,"

"We didn't until a few hours ago. But now we know that it is not only babitable but very much inbabited as well. Two citizens of the Earth Republic are there now-in trouble. The Secretary of Interplanetary Relations has ordered me to send an expedition there immediately. I have selected you as the logical man to

take charge of this work." "Thank you, Sir."

"That's all right. You will, of course, want to know the purpose of the expedition. We have been ordered to find and rescue the Valentine Sisters." "What! Again?" Brink ejaculated.

"Yes! Again! I don't blame you for being disgusted. This is the fourth time the E. R. S. N. has been called on to save those meddlesome damsels from the consequences of their eternal quest for thrills. Previously their exploits have been confined to the unexplored portions of Mars and Venus where our garrisons were near to help them if they got into trouble. This time it looks much more serious. There really ought to be a law passed to prevent immature, irresponsible girls from petting into interplanetary messes,

"Nevertheless, you can't help admiring the Valentine twins for their pluck," Brink remarked, "There aren't many girls in their twenties who would have the guts to navigate a rocket ship into remote regions of space as they have done.

"Don't waste your admiration on them, Captain," said Steiner, "They are thrill-seekers and publicity bounds,"

"Maybe so. But while they are acquiring their thrills and their potoriety they also have gone through the motions of gathering scientific data." "I suppose they have done some good," the Colonel growled. "But that's neither here nor there. Right now

your job is to locate the Valentine Twins and bring them back to earth. Take a look at this." He handed Brink a metal cylinder about a meter long and fifteen centimeters in diameter. Frank recognized it as a helprocket such as are used to summon assistance for space

ships in distress. "It was picked up by the crew of the space-freighter, Hercules," Steiner explained. "This was found inside

of it." Brink took the scrap of paper, which the general handed to him, and read the following message: "Vera and Velma Valentine-calling for help. Our rocketship is wrecked on Titan about three kilometers north of a city of cones on the shore of a large orange-colored lake. We are surrounded by scores of horrible, shapeless creatures. They are closing in on us. There is just time to dispatch this rocket. Come, help us, quickly,

please I" 'Shall I keen this?" Brink asked.

"You may as well. Not much to go on, I'm afraid, but it's all we have. By exercising your usual resourcefulness. I bone you will be able to accomplish the task." "How many ships do you think I shall need?"

"You may need the whole fleet, but I'm afraid I shall be able to soare only one twenty-meter ship." "Only one ship?" Brink exclaimed. "One small ship

to fight the whole population of Titan? Why, it just isn't in the cards to-The Colonel interrupted him with, "Sorry, Frank, but one ship is all I can snare. Several things have happened

within the last few days-things that will tax our forces to the limit. Yesterday a revolution broke out on Io. The Universe Mining Corporation is having plenty of trouble at the platinum mines on Callisto. As if that wasn't plenty, the space pirates are up to their old tricks -bolding up and robbing the bullion ships. I really need every ship and every man in the service. If I had my way, I'd let the Valentine sisters work out their own salvation, but orders are orders. For political reasons we must at least go through the motions of trying to rescue them, but one small ship is the most I can take away from our regular work. I guess you know what that means. On a long trip like that you'll need every cubic centimeter of storage space for fuel, oxygen, water and food. There will be room for only two other men hesides yourself,"

"You have certainly given me a good job," Brink grinned. "All I have to do is to conquer a whole na-

tion of unknown enemies with one ship and three men." "I realize that your task will not be an easy one," the general conceded. "But I'm hoping you will make up for your lack of numbers by your well known ability as a strategist. After all, if it is a question of open warfare, perhaps even the entire E. R. S. N. fleet would not he powerful enough to accomplish the objective. And when it comes to stealth and strategy, the smaller the force is, the more likely it is to succeed."

"Very well, Sir," Brink saluted. "I'll do my best, Sir."

"You don't need to tell me that," the old man said as he gave Frank an affectionate pat on the shoulder. "In recognition of the difficulties you are likely to encounter, I shall permit you to select your own assistants. You are at liberty to choose any two men in the Ganymede garrison. If you wish, I shall allow you one hour in which to make your decision."

son. If you wish, I shall allow you one hour in which to make your decision."
"I shall not need it," Brink told him. "My choice is already made. Will you be good enough to notify Captain Albert Hawkins and Lieutenant Iames Sullivan that

TWO hours later, having checked over the cargo and equipment of the new space flyer for the third and last time. Captain Brink, accompanied by his two chosen

they are to accompany me?"

last time, Captain Brink, accompanied by his two chosen companions, rocketed through Ganymede's atmosphere and headed toward the planet Saturn. When the speed indicator told him that the ship had

attained its specific maximum to the same has attained its maximum acceleration, Frank shut off the exhausts and relaxed his vigilant attention to the controls. Captain Hawkins stretched himself, yawned cavernously and mumbled, "There's one thing I like about these long trips. It gives a fellow a chance to eath up

on his sleep.

Brink chuckled, "Do you know, Al, I believe your idea of Heaven is a place where you can curl up in a knot and snore for a million years."

"Don't exaggerate," Hawkins protested languidly. "I'll admit I like to sleep. But a million years! Now if you want to make it, say five hundred thousand years, why—"
"Beat it!" Brink interrupted him. "Crawl into your

Lieutenant Sullivan unlimbered a battered guitar, twisted the keys experimentally, plucked out a few

chords of doubtful harmony and crooned:

Oh, Captain Jinks, the space marine—

He drank a quart of gasoline:

And since that time he ain't benzine.

He's now a piece-ful fight-tur!

within the boundaries of plausibility."

Brink picked up a magazine of ancient vintage and started reading an absurdly impossible story about a Martian's advanctures on Zoxaquonkivizibum, an imaginary planet of the star Sirius. After a page or two, he threw the book down in disgust. "Why," he asked himself, "Why don't these writers of science fiction try to keep

Having sung for the seventeenth time the mourridal but sprightly sage of the bibbloom Capain Jinks, Sullivan pat away the guitze and remarked, "By the way, which was the property of the property of the property of the many times and 'I've ofters been called a Space Marine myself, and yet I've never been able to make the alightest ist of seen out of that ricitious nonencelature. I always thought that the word 'marine' meant something always thought that the word 'marine' meant something to proper the property of the pro

"Merely a figure of speech, my boy," Brink elucidated.
"Didn't you ever hear about the United States Marines?"
"Certainly I've heard of them. During the World
War at the beginning of the twentieth century they were

called 'Devil Dogs.' "
"That was because they knew how to fight. My greatgreat-great-grandfather was a Colonel in the United States Marines. Evidently his descendents must have thought that meant something, because the traditions of the marines have been harded under traditions of the marines have been harded under the control of the c

was goverened independently and had its own separate navy. Whenever trouble started in any part of the world, the marines were always the first to arrive. Tell it to the marines' was a common expression. Another phrase that has been handed down in history is 'The marines have landed and have the situation well in hand'

Doesn't that have a familiar ring?"
"It certainly does. Only nowadays, whenever there

is trouble, it is always the E. R. S. N. forces that arrive first and get the situation well in hand,"

Marines. It goes like this:

first and get the situation well in hand."

"And that's why they call us the Space Marines! Perhaps it will also interest you to know that the song you were trying to sing a while ago is a rotten parody on a ditty that dates back even further than the United States

"Oh I'm Captain Jinks of the Horse Marines.

I feed my horse on corn and beans.

In fact it's quite-"

That was as far as he got. He was interrupted by a stentorian snore, which rumbled forth from the storage

chamber like the snarl of an enraged tiger.

It was so unexpected that Sullivan gave a startled jump. Since his body was practically weightless, it

sent him sailing out of his seat, bumping his head against the roof of the control room.

When he had recovered his equilibrium, he stammered,

"Does he always snore like that?"

"Not always. Only when he is asleep,"

"Naturally, you goop. But he must have been asleep for several minutes. How do you explain the sudden

outburst of cacophony?"
"Don't ask me to explain anything about Al's peculiarities," Brink grinned. "When it comes to snoozing, he's in a class by himself. It always takes him some time before he is warmed up enough to snore with his

full volume, but once he gets going, even the horn of Gabriel couldn't arouse him. I've known him to slumber like a baby with the rockets roaring full blast and with the ship turning pin-wheels."

"Isn't there any way to wake him?" Sullivan asked. "Only one way I know of."

"And what is that?"
"Watch."

all Brink picked up one of those flexible drinking tubes that are familiar to all interphenary travelers. Un-, serveing the cap and spacesing the end opposite the more, be presented out into his hand a quantity of water, and the space of the property of the space of the water was very diptients, but the cope beninn of its particles had it together in an erg-shaped gelotale. With a starp smack the lough ensisted strategy of the space of the spa

Lake a see-not coming up for air, Flawaria snored and gurgled and finally tumbled out of the hammock and finated to the floor with his arms and legs floundering wildly. "What tha—What tha" he blubbered as soon as he could get his breath. "Can't you even let a guy sleep in peace?"

Captured by Amoebas

OR many weary days the three space travelers felt as if they were floating immovably in the center of the vast, hollow sphere of sable blackness that was the sky. Behind them the miniature san with its

AMAZING STORIES blazing corona shooting out tongues of lambent flame

in all directions, grew smaller and smaller. Tuniter, too, had shrunk appallingly. Like a slowly deflating balloon, it had contracted until it could scarcely be distinguished from the brilliant stars which stabbed through the shell

of blackness from all directions.

Meanwhile, there loomed up ahead of them a magnificent spectacle, which swelled and brightened with incredible rapidity. From thte incomparable, awe-inspiring rings of relatively minute particles which spun magically around the golden ball within their circumference, they all knew that it was the planet Saturn. Swimming about it, at varying distances from the outer edge of the largest ring, were no less than ten moons,

It was an easy matter to pick out Titan, which was considerably larger than any of the other satellites. Circling it at a distance of about a hundred kilometers, Brink scanned the surface of the satellite with the ship's teleview, that marvelous instrument which not only magnified images but also amplified them, just as the loud speaker of a radio amplifies sound. With it the observer could distinguish even the minutest details with a startling clearness at a distance of several hundred kilometers.

Captain Brink soon located the large, orange-colored lake with the city of cones nestling close to its shores. He attributed the peculiar color of the water to the golden light, which emanated from the seething surface It was densely elothed with purple-hued plants of weird-

of the parent planet: Not far from the lake was what looked like a forest.

ly fantastic shapes. Brink decided to land within this wooded area, near the edge of it, which was closest to the lake. By this means he hoped to conceal the fiver from the eyes of the creatures who dwelt in the city. Thanks to the efficient gravity-regulator with which the ship was equipped, he set the craft down so deftly that scarcely a quiver was felt as it slid gently between the branches. The trees in this fantastic forest reminded Brink of the submarine gardens near Catalina Island, California, which he had once viewed through the glass bottom of a sight-seeing boat. As soon as the ship touched the ground, Captain Haw-

kins opened a valve and drew in a sample of air which he analyzed quickly.

Meanwhile, Sullivan had taken a reading of the cen-

tigrade thermometer which registered the outside tem-"Fourteen point six," he announced. "I expected it would be much colder than that, considering that we

are getting only one ninetieth as much heat as the earth gets from the sun." "The elimate here is a good deal like that on Gany-

mede," Brink explained, "Titan gets plenty of heat and light from its parent planet. We won't even need our electrically heated suits. How is the atmosphere, Al?' "A trifle shy on oxygen and long on carbon dioxide, Hawkins replied. "But it's perfectly safe to breathe." "Good!" said the leader. "And, by the way, Al, I

think you had better stay in the ship while Jimmy and I go out and reconnoiter. If you want to take a look outside later on, I'll come back and relieve you." "Yea, yea, Chief!" Hawkins yawned. "Hope you

don't mind if I take a bit of a nan. "If you do you'd better sleep with both eyes and at least one ear open," Brink warned him as he sniffed the

outside air suspiciously. "Smells like a drug store," he announced. "But I guess, if Al says so, it must be all right. Come on,

The spot where the rocket-ship had landed was on the side of Titan which was then facing away from the sun. But above the jagged peaks of the distant horizon nearly half of Saturn's bulk was visible. It looked like the head of a cosmic jockey, the portion of the tilted ring, which

was visible, forming the elongated visor of his cap. Though the light was dim, it seemed to have a peculiar,

penetrating quality Both Brink and Sullivan were equipped for flying,

but they decided not to use their wings, deeming that they would be less likely to be seen if they kept close to the ground. They had not walked far when they were startled to see a beam of dazzling brilliancy leap out of the sky. The source of this light was a mystery, since there was absolutely nothing floating or flying in the air. When his eyes became accustomed to the glare, Brink noticed that the light was reflected against an upper stratum of the atmosphere, toward which it was projected from the distant elty

As if operated by a methodical, intelligent being, the beam of light swept back and forth across the valley. Apprehensive that this phonemenon signified danger, Brink whispered, "Let's beat it back to the ship, Jimmy!" But they had scarcely taken three strides toward the

forest, when the beam overtook them, drenching them in a stream of blinding light,

· Grasping Sullivan by the wrist, Brink said hoarsely, "Hold it Jimmy. We won't gain anything by betraying where the ship is located. Maybe we can side-step the light."

But, though they jumped and ran and dodged in all directions, the ominous shaft of illumination followed them relentlessly and unerringly,

Then, as mysteriously as it had come, the light was extinguished. For a minute or two they stood there, wondering what would happen next. Meanwhile their nostrils caught a naustating odor. It was like the smell of decaying vegetation-the fetid odor that comes from a pool of stagnant, polluted water. The source of this scent was not apparent to them until their dazzled even became once more accustomed to the semi-darkness. Then they discovered that they were surrounded by a surging

band of ghostly, preposterous creatures, Neither arms, legs, eves nor ears did these weird beings possess, yet they seemed to be alert and attentive

and capable of handling any situation that confronted them. Almost colorless-like great masses of untinted gelatin-their bodies were shapeless and transparent. At the center of each organism was a dark grey spheroid about the size of a large watermelon. Lobed and wrinkled, these cores of living matter were folded into thousands of squirming convolutions.

"Brains! That's what they are," said Brink in a hissing whisper. "Just great big brains with nothing but

gobs of protoplasm to support them." "To me they look more like giant amoebas," Sullivan contended. "What you take for brains, may be nothing

but the nuclei." "Maybe they are oversized amoebas," Brink conceded. "But those grey gobs inside them are brains, and don't

you fool yourself. As if bent on verifying the suppositions which both the Earthmen had voiced, one of the Titanians separated

itself from its companions and flowed toward them with a charactistically amoebold motion. When it had covered half the distance, it stopped and a portion of its substance was punded out to form a pestelo-podium or false limb. With a gesture that was unministability meant to be a polite but firm request, it bedoned for the two men to move in the direction of the city. At the same time the good of strange creatures opened like a horse-shee in front of them, while they surged slowly forward behind

"It seems to want us to follow it," Sullivan stammered. "Do you think we'd better obey?" "Not unless we have to," Brink declared. "Let's get

"Not unless we have to," Brink declared. "Let's get our wings ready."

As he spoke these words and before he had time to unfurt the wing membrane which were wrapped around his arms, Brink was astonished to see a bulge appear on the upper surface of the Titanian leader. With uncampy speed it formed itself into what looked like a featureless head, which it proceeded to shake violently as it to say, "You had better not do that."

Paying no attention to this warning—if warning it was—the two space marines adjusted their wings, turned on their gravity-nullifyers, and soared heavenward. Instantly the amoeba-like beings, which up to this

time had moved allowly and sluggishly, furtied themselves into swift action. Flowing along the ground with incredible speed, they gathered momentum until with powerful leaps, they took to the air, their flexible bodies taking the form of giant flapping wings.

Soon the air was full of them and the two men found that they were being prevented from flying in any direction save two—downward and toward the city of cones. Brink decided to return to the ground, ltoping thus

to gain time for concocting some strategem. But when he and Sullivan attempted to delay matters by seeming to yield, but walking with deliberate slowpes, four of the Titanians approached them and thrust out from their bodies long, sinuous tentacles with which they reached out to seize their captives.

When he saw the snakey pseudo-podia whipping out toward him. Sullivan Joet his head and drew his superpitot. Though it weighed less than a kilogram, it was capable of spraying beliets with the speed of a machine gun and the power of an elephant rife. Sullivan saw the bullets painly as they thudded into the body of his opponent, but they pendrated only a centimeter or two before they were checked by the tough, realliest material of the Tiltanian's body. With horrified dismay he saw the creature press the bullets out from its skin, like 2 - kilot

spitting cherry-stones from its mouth.

One of the tentacles wrapped itself around the pistol and wrenched it out of his hand. Then he felt his arms seized in the clammy embraces of other pseudo-podia, which dragged him forward with irresistible force.

"It's no use, Jimmy," he said resignedly. "We may as

A Sinister Encounter

well go along with them,"

SCORTED by a mob of squirming Titanians, many of whom had joined the procession en roste, the two Terrestrial officers were draged through the wide but tortuous streets of the village until they reached a building of medium size. A door slid to one side and the two men were shoved through the opening. Noiselessly the door closed behind them.

They found themselves in a room shaped like a segment

of pie. At the inner angle of the chamber was one of those shapeless, transparent masses of protoplasm, which they knew to be a native of Tian. It was considerably bigger than any of the others they had seen and its central spheroid of wrinkled grey matter was correspondingly great.

Though it possessed nothing that resembled features or sense organs, the creature indicated by its change in position that it was conscious of their presence. From

different parts of its body bulges appeared, protruding like the telescopic eyes of a lobster. "He is giving us the once over," Sullivan remarked.

"He is giving us the once over," Sullivan remarked.

At the sound of his voice, the Titanian moved a trifle closer, as if striving to catch the words. Then it shot

out several tentacles with which it explored the bodies of both prisoners at once. Stretched across a low frame in front of it was a strip of material resembling celluloid on which the creature scratched strange marks with a small, sharp instrument.

When the inspection was completed, the Titanian withfrew all its pseudo-podis into its body and the door opened again. Out in the street four guards awaited them. As they were being conducted still further toward heart of the city, Brink said, "Well, there's one thing to be thankful for, Our rocket-ship is still sack. Body AI will be able to contrive some way to help us out of this mess."

As if to mock his words, an ominous hissing sound came from somewhere overhead. Looking upward, the two men were horrified to see their space ship hovering over the roofs of the city. It was not traveling under its own power but was held in the clutches of two clawlies instruments hanging from the under side of a storlle instruments hanging from the under side of a storgardish hanging the store that the substantial of the polyhedron with fourteers faces.

Brink, who had majored in mathematics, knew the technical name of this figure. "It's a tetralsaidecagon," he told Jimmy. "These babies must know a lot about mathematics to be able to construct a ship of that shape. What do you suppose that hissing noise is? Doesn't it

What do you suppose that hissing noise is? Doesn't it sound familiar to you?"

"It sure does. Sounds like the hydrogen escaping from the fuel tank. Maybe those dumb-bells opened the

throttle without turning on the ignition."
"I'll bet that's what happened all right. And we need every cubic centimeter of that fuel to get back to Ganymede!"

"What do you suppose has become of Al?"

"They probably captured him like they did us. First thing you know, they'll be dragging him into town."

Just ahead of them they saw their rockes ship come slowly down until it rested on the pavement of a wide circular space where several of the streets intersected. Ernick tried to dash toward it, hoping at least that he would get a chance to shut off the escaping fuel, but in this he was thewarded by his alter guards, who shot cott long tendrils of protoplasm which wrapped about him and stopped him dead in his track.

Through a huge door of one of the largest of the buildings, the space flyer was carried inside. The Earthmen caught a glimpse of another space flyer, which they surmised belonged to the Valentine sisters. It had a rareed vawning hole in its side.

ragged yawning hole in its side.
"Take a good look at that building," Brink whispered.
"If we ever get loose, we'll want to know where our ship

is located."
Since all the buildings looked exactly alike, except for

differences in size, this sounded like a difficult thing to do. But the task was made easy by a fortunate circumstance. The huilding to which the guards conducted the

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two terrestrial prisoners faced on the same plaza, only a short distance away. "What do you suppose is going to happen to us now?"

Sullivan inquired when they were confined in a small cell. "Judging from our surroundings, I should conclude that we are to be placed on exhibition for the edification of the curious populace," was Brink's reply. The place certainly did look like a museum or a menagerie. Encircling the curved, tapering walls of the building were a larve number of cells like the one to which they had been assigned. In the wall facing toward the center of the hall, each of them had a large window of transparent material nunctured with aval holes about the size of hen's eggs. Many strange beings were displayed in these cells. Most of them were alive, but a few of them were

stuffed or mummified. The middle of the room was occupied by a bewildering assortment of pipes and tubes and vessels of grotesque shapes, which looked as if they might be scientific equipment. They were separated from the rest of the room by a low railing. Between this and the cells, scores of the Titanian amoeba-men flowed from one exhibit to another, seeming to study the curiosities with comprehen-

give but eve-less wonder. "Well." Brink remarked. "If we are supposed to be putting on a show, let's give them a song. I'll sing baritone and you carry the tenor." Thus they same lustily:

Oh, Cantain Tinks, the space marine He drank a quart of gasoline: And since that time he aint benzine-He's now a niece-ful figh-tur

Drawing in long hreaths, they were about to repeat this nonsensical ditty when they were astounded to hear a voice that was unmistabably human and unmistably feminine. "What-ho! You Earth-men! Who are youall, anyhow?"

From the direction of the sound, Brink inferred that the invisible person who had spoken was in a cell only a few meters away from theirs.

"Good morning!" Brink eried. "My companion, who sings such a vibrant tenor, is Lieutenant James Sullivan of the Earth Republic Space Navy. My name is Captain Frank Brink. I suppose you must be one of the Valen-

tine twins. Is your sister there with you?" "Yes. We are both here." said two voices in unison. "We were sent out to rescue you," Brink informed them. "So far we have succeeded in getting captured

ourselves. What do you know about these Titanians, anyway?" "They are horrid," one of the young ladies replied.

"Can't you do something to get us away from here? We're afraid for our lives."

"It doesn't look to me as if we are in any immediate danger," Frank assured her. "Since we seemed to be regarded as freaks, they will probably keep us alive in-

"Don't be so sure of that. Those creatures are bad, I tell you. You should have seen what they did to Omar,"

definitely."

"Omar?" Brink exclaimed, "Who in the Universe is Omar?"

"Our mascot. He was---' "The darlingest Persian kitten you ever saw," the other girl interrupted, "We've taken him with us on all our trips. He has been all over the Solar System."

"What happened to him?" Sullivan wanted to know. "One of those unspeakable brutes pailed him to a hoard and cut him all to pieces. He did it right in front of our eyes!"

"It was horrible!" the other oid resumed. "Poor Omar screamed so pitifully !"

"You mean they vivisected your cat?" "That's exactly what they did. And I believe they

are planning to do the same thing to us. Help!" "What's the matter?" Brink cried in an alarmed voice.

"One of the Titanians just grabbed Vera," said a voice which Brink assumed to be Velma's, "It is wrapping its nasty tenacle around her mouth so she can't ... Oh! Now it has me !"

"Miss Valentine?" Brink yelled. "Are you two all right?" In a smothered mumble came the words, "Don't worry

about us. They are only trying to gag us. Perhaps we'd better quit talking for a while."

"That sounds like those Titanians can hear us talk," Sullivan whispered to Brink. "No question about that, And-what is more im-

portant-I'm convinced that they are highly intelligent and can understand what we say "Nonsense!" Sullivan scoffed, "Those amocha-things intelligent? Why they are nothing but great blobs of

protoplasm!" "So is the human brain nothing but a hig blob of protoplasm. Even the lowest type of microscopic amoeba has a rudimentary brain. Biologists call it the nucleus There's not much to it, but when the nucleus is removed. the amoeba cannot envelope and divest its food in the usual way. For all we know, the nucleus of the time amoeba might have developed into a sentient, thinking

brain, even more wonderful than ours." "Sounds mighty fishy to me," was the doubting response. "I always thought that highly developed mental powers were associated only with organisms that are highly developed physically-organisms that have heads and legs and other members. These Titanian babies don't seem to have anything but great big gobs of shape-

less goo." "Nevertheless, these amoeba-men, simple as their hodies are, seem to possess powers that make them far superior to use physically as also mentally. If a Titanian needs an arm, he can manufacture one instantly from the substance of his own body. And he can make it as long and as thick as he requires to accomplish the particular purpose. In the same way, he can produce as many legs, feet, hands and tentacles, and even wings as he needs, whenever he wants them. And in this respect, he isn't much more talented than the most primitive amoeha, which can transform any part of its substance into pseudopodsa, exactly suited to grasping and devour-

ing its prey." "Do you mean to tell me that amoebas can fly?" Sullivan exclaimed.

"Not that I know of," Brink laughed. "But of this I am sure: If they wanted to, they certainly could produce wing-like protuberances and manipulate them like these Titanians do when they fly. Talk about being

mere blobs of protoplasm-why they are better developed and far more efficient than we are!" "Maybe so. But a minute ago, you suggested that they may be able to bear what we say and know what we are talking about." "I don't think there is any doubt of it," Brink de-

clared.

"Do you mean to say that those bozos can understand English."

"Not word for word, of course. But I wouldn't be a bit surprised if they could read our thoughts." "You mean by mental telepathy or something like

"Yes. Something like that, Take that chap out there in front of our cage, for instance, Doesn't his attitude suggest attention and intelligence?"

To me, he's just a bowl of applesauce turned upside down." Even as Sullivan spoke these words, the shapeless

heap of jelly elevated itself and swaved in the direction of the two Earth-men.

"See there!" the captain cried. "Doesn't that look as if he understood what we said? Not only that, but I have the most peculiar feeling that he is trying to communicate with us. How about yourself? Don't you have a sort of funny mental impression, such as you

have when someone is looking at you from a distance?" "Now that you mention it, I do have some peculiar mental impressions. Darned if I can interpret them, though."

"I think I can," Brink asserted, "Unless the telepathic signals are haywire, that Titanian out there is trying to ask us where we came from, Just for the fun of it, I'm going to see if I can carry on a conversation with him." Then, addressing himself to the formless creature who was squatting on the floor, like an enormous wad of chewing gum, Brink said, "We came from Ganymede, my friend. But our original bome is on earth."

The Titanian swaved, as if to indicate that it had received the message. Then, without any sound being uttered, Brink imagined that this thought came into his mind. "These are only your own names for these places, oh stranger. Tell me, do you come from a land that is warmed by the same sun as ours, or is this place you

eall Ganymede in some other system?" "Did you get what he said, Jimmy?" Brink whispered. "I think so." Sullivan replied. "He wants to know if

we belong in the same solar system as Saturn." "Those are not the exact words as I got them." Frank told him, "But the thoughts I received were almost iden-

tical with yours. Resuming his "conversation" with the Titanian, be explained: "Ganymede is the largest moon of the largest planet in the solar system. Do you understand now?" The thought-answer was, "I understand perfectly.

And where is this place you call earth?" "It is a planet-the third one from the sun."

WHILE the Titanian was getting ready to propound another query, Brink said, "Listen, Jimmy, I believe I'll turn the tables on that chap and do some questioning on my own hook. Maybe I can pump some valu-

able information out of him." "A good idea." Sullivan agreed. "Go to it." Moving forward a step or two, Brink asked, "Are you

a male or a female?" The Titanian indicated that he did not understand this.

Brink tried to make it clear to him: "The people on earth, as well as most of the animals that live there, are divided into two sexes. We call them

male and female. Both of us in this cell are males. The two persons in that other cage down there are females. Do you comprehend now?"

"Yes," came the answer. "But here we have no Sexes."

"Then how do you multiply?" Although Brink's knowledge of biology beloed him to

anticipate the reply, he was nevertheless astonished when this message came into his mind: "We proposate by division. Any adult can divide itself into two smaller but complete parts whenever it wishes. Watch me and I'll show you how it is done." And right there, in that public place, the creature squeezed itself in the middle until it looked like two balls of jelly stuck together. Through the transparent substance of the amoeba-man-Brink observed that the greyish nucleus, which he assumed to be the brain, was also eleaving apart. In less than a minute, each of the two separate brain portions had moved to the center of its half of the protoplasmic material and what had before been one organism became

"Remarkable!" Brink exclaimed "And now ean you reverse the process? Can you join yourself together again?"

The answer was: "No! That is impossible. Now that I have divided myself, we must remain as two separate individuals. Each of us is now a child, but we will soon

grow to maturity." "Do you ever fight with each other?" Sullivan wanted

"You mean my brother and me?" As this message came through, one of the newly formed entities extended

a pseudo-podium and pointed to his companion. "I mean do any of you Titanians ever fight among vourselves."

"Nothing like that has ever happened so far as we "Don't any of you ever die? Isn't it possible for you

to be killed by one of the other inhabitants of this city?" "I don't see how that could he." "Isn't there any kind of weapon or projectile or mis-

sile that can cause the death of one of you? "What you call weapons, such as knives, projectiles

and missiles, eannot harm us in the least. There is only one thing of which we are afraid and that is-

Just as a telephone conversation is cut off when the operator pulls out the connecting plug, so the important message which the Titanian was about to impart was interrupted abruptly. With their hodies trembling in a way that plainly indieated intense fear, the two creatures who had been so

accommodating in giving information, slid rapidly out of the building. Their place in front of the cell was taken by another of the amoeba-men. Because of its unusual size, as well as some other individual peculiarities, Brink thought he recognized this one as the Titanian who had inspected them in the first building they had

If you can imagine a shapeless mass of gelatinous protoplasm registering anger, then you will have a clear nicture of how that creature looked as it reared up and rocked itself back and forth,

"The old boy seems to be slightly peeved," Sullivan remarked.

From the direction of the Valentine Sister's cage came these softly spoken words, "That's the beast that cut up poor Omar."

"Shut up or I'll gag you again—this time permanently!"

Both Brink and Sullivan received this message clearly. Apparently Miss Valentine did also for she murmured in a terrified voice, "All right. Just leave me

alone and I'll keep still."

alone and I'll keep still."

The next thought impression which came into their

730

consciousness was: "Why did you come here?"

Concluding that a truthful answer was as good as any,
Brink replied, "Our mission is a peaceful and a friendly
one. We were sent to bring back the two earth-women,
who wish to return to their home. Neither they nor we

who wish to return to their home. Neither they nor we have any intention of injuring your wonderful world or any of its inhabitants. Won't you please let us go back where we came from?"

"What you ask is impossible. Whether or not your

intentions are friendly, I cannot risk permitting you to return. Who knows but that you may come back with large forces to rob and murder my people?"
"I'll swear to be personally responsible for prevent-

ing anything like that from happening."

Brink imagined he almost heard a peal of scornful

Brink imagined he almost heard a peal of scornful laughted as into his consciousness earnet his: "What good is the oath of an inferior animal like you? And, besides, I have another reason for wanting to detain you. I am a scientist and I am very much interested io the structure of your bodies. In the interests of science I consider it my duty to investigate you thoroughly." "You mean you intent to cut un our bodies while we

are still alive?"

"Certainly. Why not?"
"If you do anything like that, you will regret it,"
Brink threatened. "Our earth-people are very numerous and powerful. We belong to an organization which always protects its members, wherever they may be. It

is absolutely relentless in punishing its enemies."
"Now you are showing your true colors. A moment ago, you said you were friendly. Now you threaten us

and call us your enemies."

Brink realized that he could not hope to bluff this super-intelligent being. He decided to keep quiet. But the flow of thought impulses from the Titanian

leader continued to pour into his mind.
"You are right in concluding that there is no use in trying to dissuade me from my purpose. And now I must go and make preparations for my experiments."

He glided ozzingly into the central part of the room and began to busy himself with some of the apparatus there.

"Do you suppose he is going to start operating on us right away?" Sullivan asked Brink in a husky whisper.

right away?" Sullivan asked Brink in a husky whisper. Before Frank could reply, he received the mental assurance all four of the earth-people would be safe until the following morning.

Outwitting The Amoeba-Men

AFTER a few boars, which second inductably long to the was not as hoped to long to the two men as they and as a hoped in the state of t

flowing motion that was characteristic of the amochapeople, it propelled itself around the ring of open space between the cells and the laboratory equipment.

"That blurb seems to be the night watchman," Brink remarked, as he looked at his watch and made note of the time.

Having made one circuit of the building, the Titanian

guard plopped through a trap-door in the floor, which slammed shut behind him. Later on, he emerged again, circled the room and retired. Brink took another look at his watch.

"Twenty-seven minutes," he announced. "That ought to give us plenty of time."

give us plenty of time."
"Plenty of time for what?" Sullivan wanted to know.
"To escape, of course."

"To escape, of course."

Already Brink had decided there was no use trying to force the heavily reinforced door at the rear of the cell. The side walls appeared even more formidable,

being formed of a stone-like material as thick as a man's body.

Thrusting two fingers through one of the oval opening in the display window be some the large cone and

ings in the display window, he gave the large pane an experimental shake. It yielded slightly like a wooden board.

Responding to this suggestion, Sullivan opened his

jack-knife and tried to cut into the transparent material.

The edge of the blade turned without making the slightest impression on the window pane.

"It's as hard as glass," he muttered. "Perhaps I can kick a hole in it with my heel." "Fraid it wouldn't work," Brink disagreed. "That

stuff seems to be flexible. And even if you could kick a hole in it, you would make so much noise that you'd bring the whole population of Titan about our ears. I think I have a better plan."

Brink's plan was simple enough. On his finger be

wore a diamond ring. It didn't take him long to ascertain that with this jewel he could easily make a deep scratch on the glass-like substance. Io a few minutes he had produced a oeat, circular crack in the window and had gently removed a portion of it large enough to permit the oassace of a man's body.

"You stay here," he whispered, "so you can fool the watchman if he makes the rounds again before I get back."

Crawling through the opening, he stole softly to the place where he knew the Valentine sisters were located. Wheo they saw him at their window, they were so startled that they both shricked. Brink heard the hioges

of the trap-door creak. There wasn't time enough to return to his cell, so he leaped the railing and hid behind one of the pieces of laboratory equipment. Fortunately the watchman did not see him, nor did he notice his absence from his cage. With a sharp thought-

command to be quiet, the Titanian crept back into its retreat.

For thirty breathless seconds, Brink waited. Then he said in a stage whisper, "For the love of gravitation,

Vera and Velma, control yourselves until I can get over there and release you."

With his diamond, he quickly made a hole in the win-

With his diamond, he quickly made a hole in the window of the girl's cell. One of them started to crawl out, but he gently pushed her back.

Replacing the disk in the hole, he said, "Here, Vera or Velma, whichever you are, hang onto this so it won't fall out. You'd better stay right where you are until I get the outside door open."

He tiptoed to the portal and attempted to cut the fastenings with his knife. This wasn't as easy as he expected, for the material was as tough as copper wire. It took him so long to sever the bonds that he cast several apprehensive glances at his watch before he was through, As he passed the two girls on his way back to his own

cell, he whispered, "Hold everything until the guard makes the rounds again. Then we'll scramble,

Then he crawled inside his cage and replaced the disk which he had cut out of the window. As he sat waiting for the watchman to reappear, his fingers ran nervously through the heap of queer-looking plant stalks which bad evidently been put there for bedding. He picked up a large tuft of it and screwed it into a compact twist. By Universe!" he exclaimed, "Now there's an idea! Here, Jimmy! Help me twist this straw into bundles,

will you?" "What do you expect to do with that stuff?" Sullivan wanted to know; but Brink said cryptically, "Never mind what they are to be used for until the time comes to use

them. But while you are twisting them, please pray that my scheme will work.

A few minutes later, after the Titanian had slithered once more around the room and had crept back to the cellar, Brink, with a large bundle of twisted fiber under his arms, led his three companions out into the deserted plaza. Keeping close to the buildings, he hurried to the edifice which he knew housed the two rocket-ships. Assuming that this door would be fastened in the

same way as the other one, he ran his knife along the crack until it encountered something hard. He directed Sullivan to locate a similar obstruction closer to the ground. In feverish haste they sawed away at the fastenings until their blades grated through. To reach the third bond, it was necessary for Brink to stand on Sullivan's shoulder.

Hardly had he severed it and carefully slid the door open when a powerful impulse shocked his consciousness. It was like an ear-piercing scream, although not a

sound was audible.

Brink turned and was horrified to see the watchman oozing swiftly toward him. At the same instant, one of the girls gave a cry of alarm and Frank wheeled to find himself confronted by another Titanian, who evidently had been on guard over the space-fliers. Brink snatched up one of the twists of straw, struck

a match and set fire to the improvised torch. "Here, Jimmy I he cried as he ignited a second torch and thrust it into Sullivan's hand. "Take this and help me drive those two brutes back into the building.

WITH a running leap, he hurdled the first Titanian. thus getting behind him. Then he thrust the brand toward the amoeba-man, who shrunk trembling before "I thought so!" he yelled triumphantly. "Those bozos

have never seen fire before. Like all animals except man, they are afraid of it! Don't let them get away, Jimmy! Chase both of them into the building." When the four humans and the Titanians were all inside. Brink shut the door behind them. With Sullivan's help, he forced the two amoeba-men into the cellar of this second building and pulled a heavy, grotesquely

fashioned table over the trap-door, "You had better stand guard over the door, Jimmy," the captain commanded. I'll go and see what condi-

tion the ships are in."

He went first to the craft belonging to the Valentine girls. One glance convinced him that it was beyond repair.

"How were your fuel tanks when you landed here?" he asked Vera

"They were over half full-plenty to carry us back." "I'm afraid our tanks are empty," he affirmed. "Per-

haps I can replenish them from your supply. At that moment the large outer door slid open with a rumble like thunder. In the opening a threatening, sinister throng of Titanians milled and surged. The front ranks had scarcely crossed the threshold when

Jimmy, with a flaming torch in his hand, was driving them back. Brink ran to help him, but the plucky lieutenant waved him back.

"I can take care of these brutes. You'd better get the girls into the fiver and see if you can replenish our fuel tanks."

Realizing the wisdom of this advice, Brink entered the girl's flyer and examined the fuel gauge. Consternation gripped him when he saw that it registered zero. He tested the gauge and found it was working properly. Even when he opened the throttle wide, there was no hiss to indicate that gas was escaping.

Sweat was dripping from his forehead when he came out and faced the ladies.

"Sorry, girls," he faltered. "Your tanks are empty

too. It looks as if we were done for." "Please don't give up yet," Velma pleaded. "Perhaps you have enough fuel left to reach some remote part of

Titan. There's always a chance that we'll be saved by another rescue party. "All right," Brink muttered. "Climb in." When he took a look at his own fuel gauge, he let out

a cry of astonishment: "That's funny. According to this indicator, our tanks are five-eighths full. I am sure I didn't have anywhere near that much fuel when I Ianded."

"Maybe Santa Claus came last night and filled your tanks," Vera suggested "By Universe! It is Christmas day today, isn't it?

With all the excitement, I forgot all about it. Take a look and see how Jimmy is making out, will you?" She stepped to the window and reported: "He seems to be holding them but they are creeping closer to him.

Great heavens! He has used up that whole heap of torches! And the one in his hand is burnt down almost to his fingers." "That means we'll have to move fast," Brink shouted,

"Velma, run to the door and yell for Jimmy to beat it into the ship. As soon as he gets inside, shut the door and bolt it. "Can't you give me something to do?" Vera begged.

"Sure! Take this box of matches. In case any of the beasts are too close to Jimmy to get the door shut, light some of the matches and drive them back." The matches were not needed. As soon as Sullivan

heard Velma's call, he made a phenomenal sprint for the ship. Caught by surprise, the Titanians did not reach the flyer until Jimmy was safe inside with the door bolted securely. But before Brink had time to start the gravity nulli-

fiers and to turn on the rockets, scores of the creatures had swarmed over the outside of the ship, weighting it down with their great bulk.

In spite of this handicap, Brink succeeded in maneu-

vering the fiver slowly through the open doorway. Out within a reasonable period of time, his instructions are in the open air, the ship was ensulted by hundreds of to take you two girls back to Ganymede. In the meantime, other Titanians, who fiew around it and clung tenacious-I suggest that you and your sister had better get some ly to its surface, flapping their bodies madly in their

AMAZING STORIES

efforts to hold the ship back Due to the extra weight and to the terrific resistance By using the full power of both rockets and gravity-

which the bodies of the amoebas caused, the rocket-ship was hardly able to keep in the air.

pullifiers. Brink managed to keep on going until the ship was directly over the middle of the lake. "Here's hoping that the water is deep," he murmured, as he turned the nose of the craft downward and switched off the nullifiers.

Down plunged the ship at a sharp angle. The pointed prow stabbed the water, sending a geyser of spray into

the air. Like a fish-hawk, the great hull dove into the lake, sending the Titanians flying in all directions. When it hobbed to the surface, it was halfway to opposite shore. Brink turned on everything. With a

roar of flaming exhaust, the space-ship shot skyward, The Missing Comrade

THEN they were well outside of Titan's atmosohere. Brink shut off the rocket tubes and steered the ship around the satellite in a wide circle.

Surprised by the sudden stillness. Vera Valentine exclaimed, "What's the matter, Captain? Something wrong with the exhausts?" "Nothing like that. But I don't want to get too far

away from Titan," "What in the Solar System are you talking about? Don't you think we had better be on our way before those funny looking space-ships overtake us?" As she

said this, she pointed to a large fleet of bizzarre polyhedrons which were swarming upward like angry bees from an overturned hive. "No danger from them, so long as we keep outside

the atmosphere." Brink informed her. "I had a good look at one of them vesterday. They are just aircraft.

They are not built for space travel." "Perhaps you are right. But even so, what's the idea

of loitering?" Like a school master addressing a stupid pupil, Brink explained, "The idea is that a space marine never deserts a buddy." Then, remembering that Miss Valentine knew nothing about the disappearance of Captain Hawkins, he hastened to apologize, "I beg your pardon, You see, when we landed on Titan there were three of us. The other fellow, Captain Hawkins, is back there

somewhere. Perhaps he's dead. Perhaps he's in danger. Perhaps he is safe. Whatever the answer is, it is up to us to go back there and find him." "You mean you intend to go back there and risk get-

ting caught again?"

There's nothing else I can do. But I have tried to plan things in such a way that nobody but me will need to take any serious risk. As soon as the Titanians have calmed down and it gets dark enough to land near the city without being seen, I intend to turn the controls over to Lieutenant Sullivan. He will drop me off on Titan and will immediately take off again and wait for me out here. I shall arrange to signal him as soon as I succeed in locating Captain Hawkins. Then he can come down again and pick us up. In case he doesn't get my signal

sleep. You'll find hammocks and blankets in the storage compartment. With a gallant bow, Lieutenant Sullivan opened the door in the bulkhead and motioned for the two women

to enter. An instant later he was startled by two terrified screams and the girls came tumbling out of the storage

chamber "Oh!" one of them cried. "There's something in

there! It's one of those horrid Titanians. I saw it

Before the words were out of her mouth Sullivan had slammed the door and clamped it fast "No use, Jimmy," Brink told him, "All our supplies

are in there-food, water, oxygen-nearly everything we need. We'll either have to kill that bozo or tie him up."

"No use trying to capture him." Sullivan moaned. "Those babies can twist their bodies into any shape they want to. You might as well try to tie up a puddle of water. And, as for killing it-you know darn well what happened to the bullets from my super-nistal.

"Everything you say is true, all right," Brink admitted. "But perhaps we can figure out some way. Let we think, Obligingly, the other three held their breaths while Brink thought. The tense silence was broken by a noise. To the Valentine sisters it sounded like the growl of a ferocious animal-although they must have known that

the Titanians never made any sounds. But to Brink and Sullivan, that noise was as familiar as the root of their rocket tubes

"Al1" they both yelled. And Sullivan added, "If that isn't Al's snore, I'll eat my nullifier."

Deserting the controls, Brink followed Jimmy as he dashed into the storage compartment. There completely covered by a blanket, a shapeless form heaved up and down as the hammock swung to and fro. As cently as a mother inspecting a sleeping infant,

Sullivan drew back the blanket, exposing the pink, angelic countenance of Captain Hawkins. He was about to shake the sleeper, when Brink caught his arm and held a finger to his lips. Picking up a drinking tube. he held it high above the sleeper's face. With a squeeze and a shake he forced out a big globule of water. Like a sparkling hubble it floated slowly downward until a formed a fluid mask, completely covering Hawkins'

With much gurgling and coughing and waving of arms. Captain Hawkins awoke and gazed with bewildered eyes into the faces of his two comrades.

"What-tha-what tha!" he sputtered. "Can't you even let a guy sleep in peace?" "You don't mean to tell we you've been sleeping

here since we left you to guard the space-ship?" Brink

"Before I answer that silly question, suppose you tell me where we are."

"We're out in space, about a hundred kilometers from Titan. And these are the Valentine sisters. Jimmy and I found them and got away in the space ship. We were just preparing to go back to Titan and hunt for you when the ladies discovered you and mistook you for

a giant amoeba." "Really?" Hawkins said in what was meant to be a

sarcastic tone. "And you blinking smart-Alecks had the nerve to ask me if I have been sleening all this time! Say: Who do you think replenished the fuel

tanks?" "We thought it was Santa Claus," Brink declared

solemnly. "Don't tell me you did it."

"Sure I did it. When the Titanians sneaked up on me, I happened to be in the storage chamber. They were all over the control cabin before I had time to do anything. I thought the best thing to do was to hide. So I got inside a sack and tried to look like some hectoliters of beans. Lucky for me they didn't find me. But they must have monkeyed with the valves and let all our

fuel escape. "When they had all gone away, I sneaked out and discovered that they had moved our ship into a building where there was another space-flier. In the dead of night, I shifted the tanks. It was a dickens of a job. I got so blooming tired that I crawled into a hammock

for a bit of a nap."

The girls greeted this recital with a chorus of laughter. "Surely." Vera giggled-"surely you don't mean to

tell us that you slept all through that hullabaloo while we were diving into the lake, playing submarine and shaking off the Titanians." "Nothing remarkable about that," Sullivan declared.

"At least to anyone who is familiar with Cantain Hawkins' sleeping proclivities."

Brink was busy at the instrument board. He slowly opened the throttle and headed the ship toward the colorfully brilliant star which he knew to be Juniter.

When he had set the course he called to Hawkins. "Here, you lazy, somnolent lout. Come here and take the controls. The rest of us have some important busi-

ness to attend to." "Resiness?" Hawkins questioned. "What kind of

business? 'To which Brink replied with a significant grin,

"Business that we hope will be both pleasant and profitable. It is about time Jimmy and I got acquainted with the Valentine sisters." THE END

The Finger of the Past

(Continued from page 707) of a fur coat you want. And, would you like toin her tousled hair.

would you like to go to Peacock's and pick you out a ring, an engagement ring?" By way of reply, she threw her arms about Buffum's

neck and buried her face in his shoulder. In order to address Oliver. Buffum had to bury his neck and chin

"Oliver!" he said. "Ah-hrrr! You young scamp, from now on you are manager of the publicity department. Do you hear? And Regina, I can see business coming in again; so you may have that new airplane you've been wanting so long.

THE END

The Man Who Lived Twice (Continued from page 721)

And so, the slow parade of stars and earth and moon faded and died. I had come to the end of my first adventure.

When I awoke again, I was back in the laboratory on a deep pile of cushions in the centre of the triangle formed by the three vacuum tubes. The professor was bending over me anxiously. My strength had returned I felt my chest-no bullet hole there. I grinned up at him and reported: "Your theory is correct. I have been to the year 8117 A. D-seen machines utilizing the energy of the atom-but died before I could get the

THE END

What Do You Know?

R EADERS of AMATING STORMS have frequently commented upon the fact that there is more actual knowledge to be gained through reading its nages than from many a text-book. Moreover, most of the stories are written in a popular vein, making it possible for anyone to grape important facts.

The questions which we give below are all nanywared on the pages as listed at the end of the questions. Please see if you can answer the questions without looking for the answer, and see how well you check up on your general knowledge of science.

eral knowledge of science.

1. What is the name of the great palace, the footstain contained to the containe

secret. Got darn close to it, though,"

How could the planet Jupiter be recognized? (See page 722.)
 Name a fourth satellite of Jupiter. (See page 724.)
 Name the sixth satellite of Satura. (See page 724.)

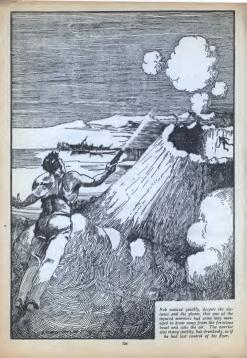
11. Which is the largest satellite of Saturn? (See page

12. How many moons has Saturn? (See mage 727.) 13. What is the nucleus of an amorba? (See page 728.)

14. How would one recognize volcanic action if the ground was warm to the touch? (See page 745.)

15. What might we anticipate as the cause of heated

ground under foot? (See page 745.)



World of the Living Dead

By Ed. Earl Repp Author of "The Second Missile," etc.

OBPIOUSLY, there seems no reason to suppose that there might not be some form of life-ween intelligent life-beneath the surface of the earth. Seeral theories have been propounded on this subject by those who made some serious, interested study. Until anything definite is proved, one theory is as good as another. It seems to us just a question which is the more exciting—and plausible. Earl Rapp's ideas on this subject are convincing—and make a very good story.

Illustrated by MOREY

CHAPTER I

T was evening when the hurricane struck. Lashing the West Indies seas into a mad furry, it came suddenly out of the south, hurling itself upon the big power yacht, Scienta, like a misamic demon. Wind howled through her taut rigging in the appalling tones of a tormented soul.

To Dr. John Marsden, scientist, explorer and owner of the big craft, supporting himself in the pilot house with a leg and an arm wrapped around a stanchion, it sounded as if the devil himself had suddenly popped up out of hell to strum a song of doom on the yacht's dripothe hallards and shrouds.

onpping naturates and surforces.

On the Scients's feels, reaching out for her with murderous intent, a waterspout sped with a droning hum that was fast increasing to a steady, hollow roar. In a frenzied effort to avoid having the craft smashed to kindling under his feet, Captain Norton, at the wheel, signaled the engine room for full speed ahead.

The Scienta drove herself into the rushing seas until her figurehead bit deep in foam. She climbed a giant, simmering green comber and swept dizzily into a boiling trough.

The awnings, stretched tight over her decks, suddenly burst with the roar of a bomb to fly ahead in long ribbons of white gossamer. The waterspout tore along in the wake of the careening craft, churned brine at the base of its ominous column, gray and roaring with bitter menace.

Again and again the Scienta, in her mad effort to escape the spout, buried her figurehead under the boiling seas. Rushes of seething brine swept waist-deep over her main deck. She shook herself gamely life a shilf-drowned dog and almost stood puright on her fantail as she raced up the side of a green mountain. Then the roarine spout overtook her. It struck her

a mighty, but glancing blow across the stern. The wheel suddenly spin from the capturin's hands. The yacht shaddered and grouned. Her plates creaked threateningly. Her decks went awash clear to the top of the rail. The spout broke and thundered past into a raving sea, leaving the battered craft floundering in white foam.

Somehow the Scienta shook herself free of the smothering embrace of the sea. It seemed as if eternities had passed before she rose clear and her main deck once more became visible from the pilot house through the driving rain.

Dr. Marsden clung desperately to the stanchion, his sum-dyed face the color of aged alabaster. A look of fear sprang suddenly into his gray eyes, when Captain

"The rudder!" he barked at his employer through ashen lips. "It doesn't respond to the helm! Hell's bells. Marsden, the spout smashed the steering gear!" "Good Heavens!" groaned Dr. Marsden. "Why we'll go down in a sea like this, helpless without a rudder!"

"Sure as you're alive!" replied Norton, giving the wheel a hopeful, but futile spin, The First Officer, arrayed in dripping oilskins, fought his way up a lee companionway, forced open the pilot

house door and entered amid a gust of bowling wind and spray. His face was white about the corners of his tight-drawn lips. "We've sprung a whale of a leak, sir!" he reported

to Dr. Marsden, shouting to make himself heard above the roar of the storm, and ignoring the captain. forward hold, housing the animal specimens, is filling fast. I've got every available man at the pumps between decks. Two of your jaguars and the black python have broken loose from their cares. The snake is curled up in the corner brackets and the cats are perched on top of the highest cages. Hell is breaking loose down there, sir. The beasts are fighting to get loose, for a chance to live and the men at the pumps are getting scared. Any orders, sir?"

Captain Norton gave the wheel a significant spin. First Officer Bob Allen's face went a shade whiter around the gills. A look of alarm swept into his fear-

less, steel-gray eyes,

"Good Lord, Norton!" he exclaimed. "Are we adrift in this hell-bending blow-without a rudder?"

Captain Norton shook his head like a man in a trance. "We've either lost the rudder or the spout smashed it. Allen," he cried, in a shaking voice. "Unless we can repair it or rig up a jury rudder, we'll wallow in these seas till we sink!"

Bob Allen braced himself against the frenzied pitching of the Scienta and scowled. He was a tall, leanwaisted, broad-shouldered young man in his late twenties, with a square, firm jaw, strong, determined lips and a personality that made him more than welcome in the palatial household of Dr. Marsden, when the Scienta was tied up at her private dock in New York Harbor.

Any timidity, he might have had toward danger in his earlier years, had been knocked out of him at Annapolis. The Navy gridiron had hardened his muscles; made a real fighting man of him. After his graduation with top honors, two years at sea, first as an ensign and then as a lieutenant in the destroyer and submarine fleets, had rounded bim out for the task of living the hard life of the deep water man.

Then be had voluntarily resigned from the service, finally yielding to Dr. Marsden's urge to become First Officer of the Scienta, to automatically take over the captain's berth when Norton's contract expired.

But there had been more than the prospect of a captain's berth and gold-braid to entice Bob Allen into accepting the offer. Service routine had been proving rather dull for him. He liked to be up and doing; going places and seeing things. He craved action and adventure. The Scienta offered all that his restless nature craved.

AND there had been something else, too, perhaps the most important of all, that had lured him into a berth on the yacht. That was Patti Marsden, adven-

turous, lovely daughter of the doctor. He had made Patti's acquaintance at a colorful Annapolis prom. and had thrilled at holding her in his arms.

She had been the most popular débutante at the dance, As he whirled her supple, trim body around the floor, he had noticed looks of envy in the eyes of his mates, who waited in vain for him to give her up. Bob Allen fell deeply in love with Patti Marsden at the prom., so deeply in fact that he would have resigned from the service a thousand times to be near her.

When Dr. Marsden sent for him and outlined his offer, Bob Allen rather hoped that Patti had had something to do with it. But in time he brought himself to believe that he had no right to hope for that, for Patti Marsden was the object of Captain Norton's attentions and apparently, he decided, she had no objections.

This discovery had naturally brought him to wonder just how Captain Norton would stand in the Marsden household when his contract expired. But Bob Allen had already signed on the Scienta before he made his discoveries with regard to Patti and Captain Norton, and had been too much of a man to back out; too much in love with her to show that he cared to that extent. He hadn't liked Captain Norton from the start. Perhaps the reason was the deep-rooted jealously that had suddenly sprung up within him.

Captain Norton, a heavy-set, rather handsome msn of thirty-four or five, had seemed so self-important; so utterly cool and indifferent to even an Annapolis graduate. He had displayed his dislike for Bob on several occasions by petty methods and particularly resented the Lieutenant's apparent poaching on what he, Norton, considered his own private preserve. The dislike had become mutual almost from the beginning. It had grown deeper in Bob with Norton's evident carelessness in handling the Scienta in the hurricane-infested

West Indies seas. With the grim air of a starving man tightening up his belt in defiance of his hunger, Bob looked squarely into Captain Norton's ashen face and thrust his chin forward belligerently.

"Do you mean to say, Captain Norton," he snapped, rolling easily with the deck under his firmly-planted feet, "that you let that spout smash us astern? Cantain Norton frowned. gear or sink! The rudder is useless and doesn't respond

"It's not a question of who let the spout strike the Scienta," he growled, "It's a matter of rigging up a jury

He shot a strange, haunted look at Dr. Marsden, who fidgeted uneasily at the stanchion. There was something in that look and in Norton's white, twitching face that made Bob Allen grin knowingly. He had suspected all along that Captain Norton was anything but an over-brave man. There was no doubt about it now. Captain Norton was vellow, afraid now in the disastrous situation into which he had either carelessly or thoughtlessly betrayed himself and his command. The swaggering, blustering, self-important skipper of the Scienta hadn't the nerve of the rawest boot in the navy, Bob decided suddenly.

to the helm. It may be jammed in the journal box!"

"I knew the minute you took the wheel, Norton," he snapped with scant respect, "that you'd get us into trouble! You were advised to put into Trinidad when the barometer began falling. But no! You wanted to take the helm and show Dr. Marsden how a good sailor should pilot a ship in a gale! Why, you blockheaded sculpin! Any second-class seaman could have steered the Scienta out of the spout's path!"

Captain Notton's neatly manicared bands balled into fists. He sensed instantly that there was more behind lbob Allen's open hostility than plain insubordination. This was a personal matter that was being brought to a head and he lessew it; knew too that was being brought to a head and he lessew it; knew too that was being brought on a head of the beautiful that the beautiful that the composition of a newy lintename must begin at once. He took a step forward, an angry light in his eyes, and sneered.

"And who am I to follow your advice, Allen?" he snarled, his black eyes glittering between narrowed lids. Desoite his sarcasm, his voice trembled.

Bob gave no ground. He placed his hands on his hips and returned the other's stare coldly. Dr. Marsden, stunned by the unfortunate turn of events, looked on in stupefied silence. The Scients rolled and tonsed at the mercy of the mountainous seas. The crash and roar of pounding waves and wind sounded like thunder. Lightning dischered through the black, low-hanging

Lightning flickered through the black, low-hanging skies in solid sheets, illuminating the floundering derelict in a ghastly glow. As night approached, the hurricane increased in its bitter violence. "You're in command of this ship, Norton," snapped

"You're in command of this sinp, Norton," snapped Bob caustically. "You ought to know how to dodge a waterspott! But like the yellow dog you are, you turned tail and ran before it with a ninety-mile gale behind you! You ought to be swabbing decks instead of commanding a ship. It was plain murder!"

A wall of green water rose to the windward. It smashed down upon the derelict with a smothering crash. Lifeboats were smashed to kindling and carried away in a tangle of lines. Dr. Marsden saw them go in a flash of lightning as his battered craft wallowed drunkenly

strong of the state of the stat

the yacht. With a savage snarl he lashed out to smash his fists into the lieutenant's taunting lips. "Murder, was it?" he bellowed. "Well, you can't come

on my ship and tell me what to do! I'll put you in irons for mutiny, you cocky young squirt!"

Seeing Norton lose his balance, Bob at that moment was not looking for an attack. He was taken unawares.

Norton's flailing right fist caught him squarely on the cheek and sent him spinning.

Dr. Marsden gave a cry of dismay and quit the sup-

port of his stanchion to intervene.

"Gentlemen! Gentlemen!" he cried. "This is no time

for horse-play! Stand back, Captain Norton! Do you bear?"

Captain Norton snarled savagely and shoved him roughly aside. The Scients lurched far over to port

sending the scientist reeling clumsily into the binnacle. Bob rose groggily to his feet. Then Captain Norton flung himself upon him, his fasts flailing. But Bob Allen was quick as a panther. His head moved just out of the captain's range. Norton's futs

moved just out of the captain's range. Norton's fists fanned his face. Stepping quickly aside and catching the captain off balance he sent a stiff right upward from his knees. It caught Captain Norton full in the mouth with an ugly amack. Norton's head snaped back, his mad charge effectively checked, blood dribbling down

his chin from split lips, recovering as he stepped away.

Bob followed him cautionaly as be backed off. He sent a jolting straight left to the captain's lips. The plunging of the yacht made him miss. Had his fist a landed, with all the steam he had put behind it, Captain. Norton would no longer have been so intent upon chastising him.

Saffron-streaked though he might have been, Captain Norton was no infant when it came to fighting. He advanced warily, arms outstretched as if intent upon wrapping them around the lithe waist of his antagonist.

Bob Allm gave ground slightly and then suddenly stroped saide. As he did so, his vicious right shot our again. Norton's head hobbed up. He shook it like a deg, wheeled sharply and came on. Bob land on intention of allowing him to encircle his powerful arms around his body, for in Norton he recognized a man who would recort to any unfair tacties to win. He samped a let and right to the explaint's face. One of the blows landed on Norton's bleeding lips. He let out a groun, but quide as a flash, be staggered Bob with

His eyes blazed murder in the floom of the plot bonne. His face showed party in the dim light of the binnache and the feeble blaze glow of the single overbeat lamp. Bob fought him of with all fights and has band. Sight of his own blood seemed to cause his cell temper to suddenly leep beyond all human bounds. His eyest took on an insane, murderous flare. His bloody face became the picture of hats. With a stream of when the beautiful the sight of the beautiful the sight of the beautiful the sight of the sight of the sight of the beautiful the sight of the si

hammering right cross.

Lieutenant Allen, struggling to keep his feet on a deck that rose and fell like a mad thing under him tried to fight him off. He shot his first into Norton's faces like pistons. He felt Norton's lattered lips finted under his blood-smeared kentidies. But despite his bloom, Norton's awareg, bull-like runsh was too meel how, to be a surgent soul-like runsh was too meel how, the surgent his proposed to be a surgent policy of the proposed to be a strangel hold; and forth for a moment, each trying for a strangle hold;

Dr. Marsden had never suspected that either Captain Norton or Bob Allen possessor dars aiming duals lies as they now displayed. As be watched, he felt that the liestenam was due for a south thrashing. Qualit-Norton control, the control of the control of the Norton control, the liest of the control of the weight. Norton bod, in an instant, grasped Bob by the threat with his right land. His left arm was crouled around the small of the literatur's back. Both foreign Bob's hand back, it appeared that the liestenant's spid-column would may a key more under

Suddenly the doctor observed Bob Allen hurl himself flat. Captain Norton lost his murderous grip on his throat and grabbed blindly to retrieve it. Over and over they rolled on the heaving deck, Norton kicking and gouging and snarring fiercely. Bob fought silently, fighting a cool, calm fight and saving his breath.

Lieutenant Bob did not like this rough and tumble fighting. And he realized that Norton's weight was against him. Norton was a veritable demon when fighting keel-post style. He struggled to pin his antagonist's arms to his sides and then batter his senses out. In their despiration Bob fought to his knees, dragging the ferce-fighting captain with him. The lieuterparties of the state of the

Quick as lightning his first durred out like striking maintee. His right caught Norton squerely on the point of the chin. His head snapped back. He flattered backward. Do I followed him up, hotsoing terrific rights beckward. Do I followed him up, hotsoing terrific rights of the sea smothered out the uply smack of flesh striking flesh. Norton savent spinning into a corner. His cyst bland like those of a cornered rat. He lay there for a momente air free support. But Gaptain Norton hotsoil is at if for support. But Gaptain Norton hotsoil is at if for support. But Gaptain Norton hotsoil is a life of the control of the

He dropped his bead weirdly as if all further desire for fighting had suddenly deserted him. Bob, sensing that the fight was over, gave him a look of disgust and turned toward Dr. Marsden. At that instant, Norton's right hand appeared again. In it was clutched a bluntnosed automatic. Dr. Marsden saw it and yelled a

warning at Bob.

Bob Allen threw himself aside just as Norton's gun

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cracked. He heard the whine of a bullet fanning his face
"Drop that gun, Norton!" Dr. Marsden roared, "Do

you hear? Drop it!"

But Captain Norton had no intention of dropping his gun. Murder flashed in his eyes. His lips curled into a significant sneer as he calmly levelled it again at Bot. The lieutenant seemed helpless on the deck. Norton took deliberate aim this time. In desperation Bob

waited to feel the snag of the bullet.
Suddenly the yacht rolled drunkenly up the side of
a green mountain, lurched over the sizzling crest and
slid on her side into the boiling trough. The deck rose
at a sharp angle. Quickly Bob Allen rolled with it just
as Norton's justed cracked again, sending a shower of

splinters up from the hard-wood flooring of the deck. Then Bob leaped to his feet and hurtled himself at the captain. The automatic snapped again. Bob felt the burn of the bullet along his ribs, but went forward despite it. Something warm began tricking down his side. He did not know how badly he was hurt. He side. He did not know how badly he was hurt. He captain Notron meant to kill him, and he part all his strength into a bendling dive at the man.

as the man. Before Norton could fire again, Bob was upon him, wrenching the automatic from his hand. The pistol stid across the deck as the ship cleared another mountainous comber. Dr. Maraden caught it and stuck it into a pocket. Through eyes that beld fear he watched the two men fighting in the corner.

Captain Norton fought like a connered wolf, teeth bard, eyes blazing with the lust to kill. Anxiens to get the fight over, Bob smashed solid rights into those battered lips. But Norton could stand punishment like a tiger, and Bob realized what a man the captain would have been had he possessed a fearless, sporting heart. Suddenly Norton bunched his feet under him. With

an oath be shifted his weight and hoisted his heavilybotted feet, aiming a vicious licit a Boly's face. It was an ugh, ghastly thing for a man of Captain Norton's boated breeding to do. A cry of dismay excaped from Dr. Marndon's lips. Men have been killed outsight from Dr. Marndon's lips. Men have been killed outsight from a hick such as Norton's scheme to hick him to death, even as the seab-bost started upward, Bob dodged. The heel of Norton's left hoot grazed the side of his bead. He fett hair and feth being ripsed from his skell.

Then Bob Allen made some lightning-quick mores. With feline agility be grasped one of Norton's feet in a toe and heel-bold. Instantly he exerted all his strength in a toed and heel-bold. Instantly he exerted all his strength in a suddent twist. Captain Norton spun over on his stomach, a scream of pain escaping from his lacerated lips. Bob realized them that be could break the man's legs at will. But he had no decire to do that. Captain legs at his lateral part of the contract of the contra

"Listen to me, Norton!" be barked fiercely. "The

to let fly, but held it.

Scients is going to sink with all hands if we don't get busy! We can't go on fighting like a couple of school kids, with death staring us all in the face! She's already subnerged below the Pinisoil mark! Do you want to quit until we get ashore, or —he crouched as if to drive his cocked right again into those bleeding lips—"shall I knock every tooth you've got down your throat?"

Captain Norton backed away, snarling. He pointed a shaking finger at Bob's face. "I'll get you for this, Allen!" he swore. "If the

Scients is going to sink, I'll kill you as she goes down, just for the pleasure of seeing you die!"

Dr. Maraden's face went a shade whiter as he heard

Notron's deadly threat. He opened his mouth to syssomerhing, thought better of it, and remained sillent. But in that moment he learned to despise Captain Notron. Bob Allen had been Norton's under dog since the Scientis had embarked nine months before from New York on a scientific voyage to Enzul. Norton had New York on a scientific voyage to Enzul. Norton had he learned at that moment that be loathed Captain Norton and wondered why he had ever tolerated him.

"I expect you'll shoot me in the back, Norton," hissed Bob coldly, "if I give you half a chance. You're just that kind of a dirty sculpin!"

He turned angrily to Dr. Marsden, whose face was like a shadow of death in the dim glow of the binnacle light.

"I'll get Patti, sir," be volunteered, "and bring her here to be with you if things go for the very worst. I ladvise you both to remain in the pilot house with life belts on. While Captain Norton has a jury rudder rigged, I'll go down into the hold and see if I can calk that leak. Any suggestions or orders, sir?"

"No, Lieutenant," aid Dr Marsden quickly, giving Norton a cold glance, "no suggestions. But I order you to take full command of the Scienta. Captain Norton will take your orders from now on—or, you can put him in irons, sir!"

Bob grinned tauntingly at Norton.

"You heard that, Norton!" he snapped. "I'm in command now! You get busy on that steering gear ander, don't get yourself washed overboard, for I've a score to settle with you when we get ashore!"

Captain Norton scowled at the scientist. His battered

face was the image of hate and disappointment.

"You can't relieve me of my command like that, Dr.

Marsden!" he snarled hitterly, defiantly, "T've got a

contract with you that doesn't expire for six months yet I'll hold you to every word of it!"
"You forget the clause in that contract, Mr. Norton," replied the scientist firmly, "giving me the right, as

replied the scientist firmly, "giving me the right, as owner of this vessel, to discharge you at any time for scitous unbecoming an officer and a gentleman. Your marderous attack upon Mr. Allen was unprovoled and unnovessary. You have openly resemble him since the day I signed him on the Science and have taken on the day I signed him on the Science and have taken on the voyage, air, consider yourself relegated to the ranks. Now get out!"

"And if you want to live, Norton," added Bob cuttly," you had better get that rudder rigged in jig time!"
Norton gave him a sullen, murderous look, then sastehed up his olidations from a book. He dispote to them quickly and stormed out. Bob dogged his bresh to the lee componioway, pussing there to wanch him silde aft under a lifetine to inspect the battered stern, then turned into the radio room adat the hridge.

"Any contact with other ships, Sparks?" he asked the radio operator who was working nervously over his instruments.

Sparks glanced up, a startled look in his eyes, and shook his head gloomily.

"Lightning struck the antenne, sir," he said tersely, "and instead of grounding, it shorted and hurned out our generators. I got one S. O. S. out, but could give

no position in time. I'm afraid we're sunk, Mr. Allen I' Boh frowned and hit his lips until they hurt. "Never say die, Sparks!" he said. "When you feel the

sea around your throat, that's the time to say your prayers."

Sparks made no reply, but kept on tinkering with his silent radio. Bob spun on his heel and stamped away.

CHAPTER II

IGHT spread itself over the Scients like a smothering blanket. The hurricase increased in its hitter fury until it seemed that the world had suddenly overturned. The ill-fated yacht rolled and tossed with the drunken motion of a water-logged derelict.

Dr. Marsden and Patti crouched in fear in the pilot house, afraid that each sharp roll of the craft would be her last and would take them into the boiling sea.

age beight and crack shot with either a rifle or pistod. Bob, afraid that she might he washed overboard if left alone in an effort to mount the companionway fromous the dock, had ecsorted her to the pilot house. Withouthout, stopping there he departed at once for the yack's stopping there he departed at once for the yack's a storecomes and secured a chemically-equipped divinignped div

while Norton, with five men from the engine room and deck crews, fought to rig up a jury rudder to replace the one the waterspout had put out of commission, Bob slipped off his clothing to the waist, donned the befirnet and went down into the water-filled hold to locate the leak.

sociate the feak.

The water steadily rose in the hold in spite of the pumps, until it began slopping over the uppermost cages housing Dr. Marsden's animal specimens which he had collected in Brazil for the American Zoological Gardens.

The hold was a bediam of horrible, nightmarish sounds. Frightment beats screened and stricked like insance things as they fought off death. A manmosh, peak-pelke creature, the first of its kind ever seen, which Dr. Maraden had discovered and trapped far up the Amazon, kroke from its cage by sheer strength. The in the direction of the men at the pumps. One of them brained the brute with an iron last.

The black python, of unbelievable length and strong enough to crush the ribs of a bullock, slid bissing across the water in a phosphorescent streak toward the frenzied scanen. They halted their work, undecided whether to bolt or first it out with the menacine servent.

But as the python's ugly black head, almost as large as the spoon of a mucker's short, allipped out of the water-filled hold and up to the cargo deck, a man war ready with the iron har. Instantly be trought it down with a sidenting crunch. The jungle monster dree hack its smasted band, thrashing the water into foam. Slowly it sank from view. The men breathed in relief. The two great lagrants continued to squat on their handless on the highest cages. They regarded the rising water through histing eyes.

While the grim drams of life and death unfolded While the grim drams of life and death unfolded with the control of the contro

He found that one of the plates had been sprung. Three corner rivets had been loosened by the shock. The force of the heavy seas and the speed of the yacht under Norton's control had opened the seam. He could never hope to stop the leak entirely. Yet he worked doggedly at the almost futile task, driving sheet-lead and cakum between the sprung seams.

Suddenly the lights over the pumps went out. The hold was submerged in Stygian blackness as Boh, working in the dim glow that had penetrated the water from the lights above, drove home his last hit of oakum and lead. In the unspeakable darkness that enveloped him now, he swore roundly. He dropped his tools and fought his way hy dead reckoning to the ladder.

The pound of heavy seas against the Scients was maddening. It sounded like the roar of field artillery. 740 AMAZING

But he struggled gamely to keep his feet under the terrific plunging of the craft. Time and again he tripped, once over the slimy, twitching body of the deline nother. Death of the politicity resorter made

terrine punging of the craft. I ime and again ne tripped, once over the slimp, twitching body of the dying python. Pouch of the palpitating monster made his blood run cold. Eventually he reached the ladder leading to the cargo deck. Dragging his weighted feet behind him he went up, his eyes smarting under the strain of peering into the blackness.

As his helmet cleared the water, a flash-light beam pierced the inky darkness The long beam played on him for a second. Then a man came forward to remove his helmet. The light flashed on his face. His eyes wore a haunted look, like that of a man who stood hand in hand with death and forev it.

hand in hand with death and knew it.
"What's wrong with the lights, Bullard?" Bob asked

when freed of the helmet.

"A heavy sea tore away the engine room cowling, sir". Bullard replied, "and let in tons of water, shorting the storage batteries and generating dynamos, throwing earlied lamps attern. Captain Norton says we'll sain before he can get a jury rudder rigged up in this storm. Before he can get a jury rudder rigged up in this storm, sending up distress rockets for the part half hour." "Any replies" 'Blo grinly klocked the lead weights

from his feet.
"No, sir, the sea seems deserted," said Bullard. "The lookout once thought he saw stationary lights off the

starboard quarter and thought they were on the Barbadoes. Captain Norton said we were too far out for Barbadoes lights to be visible."
"Norton said so, eh?" rasped Bob sullenly. "A lot be knows! We were two hundred miles south by south-

east when the blow struck us. How long have I been in the hold?"

"Nearly an hour, sir," replied the seaman. "Any luck?"
"Yeah!" Bob grunted, slipping into his oilskins. His voice had the snap of a whip, sounding clearly above

the moaning wheeze of the hand-pumps. "We'll stay up if you boys stick to the pumps. Now hop to it,

Bullard Call me on deck if the water continues to rine!"

From their perches, the jaguars peered unblinkingly at the laboring men, their eyes gleaming like fiery balls. Bullard hurried toward the pumps, his flash light guiding him. Bob followed the beam of light to a ladder leading to the main deck. He went up with the alacrity of an

I N a flash of lightning he saw that the falling mast had smashed down part of the bridge, biting deeply into the roof of the pilot house. The door was stuck

fast, held in its frame by sprung bulkheads. He put his shoulder against it and heaved in. It gave a trifle and finally opened.

nnamy opened. A swaying kerosene lamp hung from a wall-hook, bathing the interior of the pilot in a pale, yellow glow. The ceiling was in splinters. Dr. Marsden, blood streaming from a scalp wound, lay on a leather-cushioned

bench. Patti kneeled beside him, stroking his brow.
"What happened, Patti?" demanded Bob. She looked
up at him helplessly. He saw at a glance that her

father was unconscious.

"Oh, Bob |" she sobbed. "He's been hurt !"
Bob looked up at the splintered ceiling. The falling

mast had smasbed through the heavy timbers. One broken timber swayed dangerously in its socket with every plunge of the yacht.

"That timber struck him on the head," Patti added.
"I managed to lift him here."

Bob surveyed a nasty laceration on the side of the doctor's graying head. It was bleeding profusely. Patti dabbed at it with her tiny handkerchief.

"I'll get some caustic and tape from the medicine chest," Bob said, turning away. He forced open the door again and slipped out. A mountain of water rose in front of him. He could have reached over the rail and buried his hand in it. The Scients slipped up the

foam-capped comber like a sodden log. He glanced astern as a harsh cry suddenly went up "Man overboard!" the cry reached him above the

drumming of the storm. Then he heard Norton's voice, borne to him on the wind. It was a shallow, frightened voice, filled with mortal terror. Evidently some futile attempt was being made by members of the crew to save their unfortunate mate from death. Norton was cursing them bitterly.

"Let him go, you fools!" Norton screamed. "Let him

⁸ "The dirty yellow dog!" Bob gritted to himself as Norton's haggard face became sodelen! Illimitated in the give of a carbide lang. The enstwhile slopper of the give of a carbide lang. The enstwhile slopper in the center of the after deck. There he clang, conin the center of the after deck. There he clang, conparatively safe from the causeful gean, with legs hereed against it. From the capstan he should orders to the dogged crew at work on the jury gear.

Cursing softly, Bob slid down the companionway, hugged the bulkheads and attained Dr. Marsden's laboratory in which the medicine chests were stored. It was pitch dark in the cabin. He knew just where to look for the chests and had no difficulty in finding them. In a moment his hands searched out handlenges, tage and

y caustic.

By the time he returned to the pilot house, Dr. Marsoden had recovered his senses. He was sitting up on the bench now, holding his aching head in his hands.

Dr. Mareden had been a man of indominitable will, infinite resource and fearless of danger. A veteran explorer of tropical jungles, he had a number of expeditions to his credit in South America, where this unfortunate voyage had taken him in search of clues that might lead him to the object of his dreams—to solve the riddle of the lost Atlantis.

But he seemed a broken, heart-shattered old man, when Bob returned with his articles of mercy. He gave the lieutenant a haunted look as he entered and then

CHAPTER III

buried his bleeding and wounded head in his hands again. Dr. Marsden did not fear losing his own life and his yacht. Loss of these things were trivial in his mind. But Patti-the thought of her, in the full glory of youth, being strangled to death in the merciless embrace of the sea, was too much for him. He shook his head sadly at the thought, while Boh applied caustic to his

wound and began bandaging it. Patti watched through eyes that displayed more than mere appreciation. Boh was vaguely conscious of her gaze upon him. He shrugged uncomfortably. In a

moment his deft hands had finished the job. He stood up, smiled at Patti and started away. "Bob," Patti called to him softly. He turned quickly. "Father told me about your fight with Captain Norton.

It was brutal of him to attack you. I'm sorry you came to blows over me---

"Over you?" Bob feigned surprise.

"Yes," replied Patti unhesitatingly. "You see, Captain Norton was insanely jealous of me and resented your attentions, resented your being on this yacht with me. That's why he made you his underdog. He-" "I'm not interested in the faults of your fiance, Patti,"

said Boh indifferently, "nor have I time to listen to excuses for his being a yellow dog-a stabler in the

He saw tears well up suddenly in her eyes. They made him feel strangely like a cur for having been so abrupt and indifferent toward her. Deep in his heart be knew that he loved Patti Marsden. But hadn't he seen Captain Norton receiving her attention for months? She gave him a startled look

"My fiance?" she cried defiantly, "What made you think I was engaged to Captain Norton?"

Lieutenant Bob Allen, for a long moment, was completely flabbergasted. Then he felt a strong urge to step forward and crusb her in his arms. But he held

his ground incredulously. "Well, er-" he stammered. "I took it for granted, seeing you with him so much Men see such things, you

know. Moreover, Norton once gave me to understand that you were engaged to him." "I never was engaged to him, Boh Allen I" she cried angrily. "And I never want to be. He always seemed so gentle, so refined. I really couldn't help liking him a lot. But when he remonstrated with me for seeing you and threatened to smash you if he ever caught us to-

gether. I knew he was not the man for Patti Marsden to marry," "Threatened to smash me, eh?" Bob's voice was as chilly as the wind that screamed outside. It made Dr.

Marsden look up at him curiously. "This is no time for carrying on a feud, Boh," he warned. "It's time when all men should be friends.

We may all die quickly, you know.' "Father is right," encouraged Patti in a voice that was almost a whisper, "and I want you to know before

the Scienta takes us down, that I-I-I love you. Boh Allen." Dr. Marsden gave his daughter a wan, hut pleased smile. He had known all along how Boh Allen stood with her. He buried his head in his hands once more

when he observed him stepping toward her. Bob half suffocated her with a crushing embrace. She made no protest, hut clung to him, sobhing quietly.

OB ALLEN remained only a few moments in the pilot house with Patti and her father. Then with his heart thudding against his ribs he went aft, eager to help in the work of rigging up the

iury gear. Norton, still clinging to the safety of the capstan head, greeted him with sullen silence. Whatever re-

marks he might have had on the tip of his tongue for the new skipper of the Scienta, he kept them to himself. Rushing seas, cascading constantly over the decks, made the work on the gear a task of terror. After three men had been washed overboard, the others, fearful for

their lives, had lasked themselves to the ship, allowing only enough rope for them to move about freely. They worked like bloodhounds on leashes

The work had progressed slowly. Two four-inch

joists had been made fast, hooked with blocks and tackles, to the after rigging to give purchase for steer-ing an improvised rudder. The rudder, already fashioned out of spare planks by the ship's carpenter, had been thrown overboard, lashed to ropes and chains for hauling into position. It rose and fell dizzily on the mountainous waves astern like a raft of new lumber. Boh stripped off his cumbersome oilskins and went

into the work with indefatigable vigor. Norton clung to the capstan, making no attempt to engage in the desperate struggle. Boh planced at him scornfully, despisingly. The Navy is not inclined to look upon cowards with any degree of respect. Allen was no exception.

"He's got the saffron streak of a mongrel," reflected Boh silently, "and the perfidy of a snake! A bad com-

Time crawled. The night seemed without end. The hurricane drove the derelict before it like a battering ram. Lashed in the crow's nest high up on the foremast huddled the lookout, straining his spray-dimmed eves for signs of assistance.

Suddenly he tensed and listened hard. Above the roar of the storm and the sizzle of the foam-canner combers he thought he detected the thunder of hreakers uncoiling themselves on a rock-clad beach. He struggled desperately to peer through the hlackness that surrounded him. Far below, in a haze of pale, hlue light, men swarmed, toiling with the jury gear. Again and again with broken regularity he heard the thunder of hreaking water. Then in the blackness dead ahead he saw something loom up that was even blacker than the night.

His blood suddenly froze in his veins. The Scienta wallowed up a foam crested mountain. The lookout peered intently ahead. He almost prayed for a flash of lightning to illuminate the space beyond. But the lightning had long since ceased, giving way to the howling, steady wind which drove the yacht before it

The doomed vessel was sucked suddenly into a yawning hollow. Then the lookout realized that she was being blown or borne on an incoming tide head-on into a mountain which thrust its ugly head above the fretting sea. He looked again in horror. The base of the grotesque black shadow ahead showed white. The roar and thunder of pounding breakers reached him clearly now above the tunult of the storm.

"Land ho!" he hailed, hacking at his lashings with a knife. Dead ahead1 We're running ashore!'

The Scienta was suddenly picked up by an inrushing comber as if she was a bit of driftwood. She was thrust shead with the speed of an express train. The sheer wall of the mountain loomed menacingly ahead now, so close that it seemed to tower directly over the careening yacht.

As he hacked himself free of the belts that held him in his perch, the lookout gasped at what he saw below. The seas under the yacht's plunging figurehead seemed to open like the jaws of hell. In the dim glow of the smashing breakers he thought he saw a mammoth cavern opening into the mountain, wind and tide driving the

vacht directly into it!

Frenziedly he flung himself over the side of the crow's-nest and grasped a dripping line with trembling hands. But before he could wrap his legs around it for a quick descent to the decks below, the yacht was hurled forward, careening madly, into the black maw. Something struck the mast with terrific force. It snapped off midway from the deck and went down with the lookout.

The lookout felt himself tumbling into the sea. He struck feet-first, went under and bobbed up again, choking. He looked about, as a comber thrust him to its crest, for the white-hulled yacht. The Scienta was gone as if the yawning seas had swallowed her in a single, terrifying gulp. Then muttering strange things he struck out for shore with death hounding his kicking

heels. Horror-stricken at the catastrophe that had overcome the yacht, Bob Allen, risking death, had rushed toward the pilot house at the lookout's warning cries. Mountains of white water rose and fell on either side of the yacht. He reached the bridge just as the mast snapped

off. Expecting the yacht to smash upon the rocks at any moment, he dashed into the pilot house to be with Patti when the inevitable crash came. As he did so, he saw the white water-monntains drop suddenly astern. Then he felt the Scienta being hurled forward, as if on the crest of a cascading rapids. Suddenly white water enveloped her, rising waist-deep in the pilot house. An unspeakable darkness engulfed her. Almost as quickly as the water had swallowed the craft, it swept away and she seemed to be gliding forward like a launched ship slipping down greased ways.

"My God, Allen!" Dr. Marsden was aghast. "What

happened? If Dr Marsden's face had been the color of aged alabaster when the waterspout struck his yacht, it was like chalk now. His eyes bore a fearful look in the glow of the lamp. Patti clung to him in horror. Bob could see at a glance that she was on the verge of collapse brought on by the uncertainty and the new menace

that had come over the craft. "I don't know, Dr. Marsden!" he gasped. "I saw the ship heading straight for shore when suddenly the sea appeared to open and swallow us. It sounds incredible, but I believe we've been sucked into an under-

ground river or something! Here it roar?" The tumult was almost unthinkable. They felt the vacht's sides scrape with a snarling rasp over some submerged rocks. It shuddered onward. To what fate? They did not know. Nor could they have given even

the vaguest guess.
"Oh, Bob," Patti eried, splashing through ankle-deep water to his arms. "What will happen to us now?"

Bob held her close to him, whispering gently to her. "Keep courage, Patti," he advised softly. "It may not be as bad as it looks." "The men outside, Bob?" cried Dr. Marsden anx-

iously. "They may have been washed overboard!"

"Most of them were lashed to the ship," said Bob.

"Norton can hang on !" He felt Patti's warm, yielding body tremble against

him. The yacht again snarled over rocks. He tightened his arms around the girl, as if to brace her against the shock of an impending catastrophe. But the yacht tore onward like a scow riding tempestnous rapids. Strangely the Scienta did not whirl and spin as she

sped on. They wondered what kept her going bow first. Dr. Marsden, his scientific brain at work even with death hovering in the offing, had been thinking deeply on the situation. Suddenly his eyes brightened "I've got it!" he cried jubilantly, "I've got it!

Patti looked up, startled at the sound of his voice. Bob thought the scientist had gone suddenly mad. The weird light in his eyes was anything but sane, he thought. "Got what, Doctor?" he inquired tensely.

"The Cascade! The subterranean river!" Dr Marsden ejaculated, "It's too narrow to permit the Scienta to swing around sideways! We're rushing through a narrow gorge and when she scrapes, her hull is rubbing against the walls on either side of her!"

"You are probably right, Dr. Marsden," said Bob gloomily. "but what can we do about it? We may leap a subterranean waterfall any instant."

DR. MARSDEN'S jaw fell hopelessly. He began pacing the deck nervously, a deep, troubled frown on his pale face. Suddenly he psused at the charttable, looked at the maps spread thereon, then glanced at Bob, his eyes haunted by the appalling nearness of

"While we're waiting for-er-that waterfall, Lieutenant," he said, "will you chart our position?"

"Of course," Bob responded, glad for any activity that would relieve the tension of uncertainty. He escorted Patti to the bench. She sat down wearily. Lifting the smoking lamp from its swivel bracket, he carried it to the chart-table and placed it there. Then with Dr. Marsden looking on intently, he bent over

the charts. Working swiftly with dividing compass, parallel rulers, and sliding scale, he quickly traced the Scienta's

course from the moment the hurricane had struck her. After a few moments of rapid figuring, he looked up. "We were two hundred miles south by south-east of the Barbados when the storm hit us," he said, frowning. "The hurricane began driving us north-west. If the wind continued blowing us, a derelict as we were,

in that direction, it would inevitably drive the Scienta ashore somewhere in the Windward Islands," He paused a moment to study the charts again, then continued. "There's no doubt in my mind, Doctor," he added, "that the mountain I saw dead ahead of us and under which we doubtless plunged, was Mt. Pelée on Martinique!" "You really believe," mnttered Dr. Marsden, "that we were sucked into a subterranean channel somewhere

under that volcano, Pelce?" "It seems incredible, sir," said Bob grimly, "But that is my belief. Had Captain Norton followed my

advice and run for Trinidad when the barometer began

falling so rapidly, this would not have happened to us."
The pilot house door suddenly swung open before
Norton's broad shoulders. His face was the color of
chalk. He entered, admitting a draft of cold, icy wind.
"Speak of the devil," Bob grinned at him, "and he's

bound to show himself!"
"Yeah?" snapped Norton viciously. "Still looking
for trouble, aren't you, Mister Allen?"

Bob stared at him coldly, but made no reply. Patti

looked up at Norton and then cast a frightened glance at Bob. With a defiant sbrug Norton sat down beside her, taking hold of her trembling hands. She pulled them away quickly.

"That will be enough, Captain Norton!" she warned him with cool indifference. "I heard all about you trying to shoot Mr. Allen in the back. Only a cur would attempt that!"

"Oh, I'm sorry, Patti," Norton lied with a pleasant baffling smile. "I was merely trying to defend you and

your father against a healthy young mutiny."
"You're a liar, Norton!" Bob snapped furiously.
"We'll see about that someday, Mister Allen!" Nor-

ton jeered.
"Enough of that bickering, gentlemen?" barked Dr.
Marsden. He glared at Norton, adding, "What brought

Marsden. He glared at Norton, adding, "What brought you here, Norton, after I ordered you off the bridge?" The crstwhile captain of the Sciente rose to his feet. "I just wanted to tell you, Marsden," he declared boldly, "that when you placed that young pup of a lieu-

tenant in command, you sent us all to our doom!"

His eyes began to blaze with the unutterable fear
that was in his heart. He glanced around him furtively,

helplessly. His hands trembled.

"Had you jumped in and helped the men with that
jury gear instead of clinging to the capstan," snapped
Bob, "we might have gotten the ship away before she
ran ashore. But you're yellow, Norton! You hadn't
the purye to risk bejue washed operfoord!"

Driven almost to the point of madness, Norton whirled on him murderously. Bob, stepping away from the chart-table, his fasts elenched, was not going to be caught papping again. But if Norton had any intention of attacking, they were suddenly jarred out of him by the rending crash of the Scienta's hull against the rocks.

There followed long moments of dread uncertainty. Expecting the vessel to sink or leap a subterranean waterfall at any instant, Patti sprang with a cry to her father's arms. Norton was appalled. Bob scowled at

him bitterty.

Suddenly they became aware that the Scients had entered calmer waters, for no longer did she seem to be rushing headlong down a boiling cascade. Though the craft was moving forward with a lumbering roll, like a launched ship dipping her bottom for the first time, she seemed somehow to have run out of the rank!

From the deck outside came the patter of sex-booted feet. Bob heard his name called out raucously. Then he realized that the world outside had suddenly become brighter, illuminated, it seemed, by a peculiar, pale blue light. With a bound he reached the door and yanked it open, to find Sparks, Bullard and other members of the crew tensely waiting for him.

"What's up, men?" he demanded; then peering into the space beyond the Scienta's rail, he received the shock of his life. For a moment he gasped at the scene, speechless. The world had, it appeared, become illu-

minated with a faint, bluish tint. It seemed ominous as "We've run into some large lake sit" aid Sparles incredulously. "Look! There are other ships here!" Boh Allen needed no invatiation to look. His eyes sowed everywhere. Before him stretched a large lake, calm and unrilled. But the water glistened like polished of fire-opal. And the Scients, battered though she was, elided forward, borne slowly on a gentle current toward

glided forward, borne slowly on a gentile current toward a balf dozen rotting ships that were beached on the shore scarely a mile ahead. The hulks loomed up like brown ghosts, their masts, broken or gone.

Bob Åller required no second glance to tell him that they had been weirdly sucked into some underground world on a subterranean stream that cascaded down from the open sea. Incredibly high overhead was the roof of the mysterious subterrane, stretching as far abroad on either hand as he could see. It was like the prosecution arch of some monstrous theater, plowing solidly with

a pale luminosity so characteristic of the place.

The only sound in the place was the doil, muffilled rearcumantaing from the execute. Even this tunnuk was rapidity decreasing as the ship was borne farther may; from
its source. Men stared about in unsitterable save. Beh,
struck; suddenly with the idea, wondered if they would
ever get out. Then, in a voice made hard and brittle
by his excitement, he called Dr. Marsder from the piles
house. The scientist came forth quickly, accompanied
to Pattl. Norton followed glumby.

"Take a good look around, Dr. Marsden!" enthused Bob. "What do you think of it?" Dr. Marsden stared in amazement. A flush of color

swept into Pattl's face at the realization that death had been cheated, temporarily at least. Norton's face brightened, too, and the look of fear gradually left his eyes as he took in the weird scenery.

For a long time they azed in silence. Then as the

current drew the Scienta closer to the beached hulks, Dr. Marsden uttered a surprised exclamation. "Good Heavens!" he gasped, as if something vastly important had suddenly dawned upon him. "Will you

look at the nameplate on the atern of that rusted ship!"
With a trembling hand he pointed shoreward. The
Scienta was sweeping closer now and would soon beach
herself, borne forward on the current of the cascade.
But all eyes collowed his pointing hand, eyes that were
filled with amazement.
"Why—" stammered Bob in surprise. "It's the

Cyclops!"

He could not believe his eyes. Across the stern of the rusted, battered hulk nearest to them ran the name-plate of the U. S. S. Cyclops! So close were they now to the wreck that there was no mistaking the name.

Though the paint on the plate was weather scarred, the letters stood out clearly, a dull white against the red rust of the bulk.

"It is the Cyclopa, Bob!" Dr. Marsden exclaimed in a wird tone. "Why, we've found ber-solved the mystery of the missing collier! You know about her, don't

tery of the imissing country I rou know about her, don't you?"
"Naturally!" Bob grunted. "She left the Barbados, West Indies, in 1918 for Hampton Roads, but never arrived. No trace of her was ever found after her departure. Why, she must have been drawn into this place in the same manner as the Sciental I'fs the Cyclope.

all right!"
"Wonder what became of her crew?" interjected

Sparks, a former Navy man. Bob shock his head unknowingly.

"It's almost certain that none of them ever got back to civilization," Sparks continued, "else they would have told what had happened to the Cyclops. If I remember right, there were 309 persons aboard ship when she left the Barbados. Not a one of them was ever seen or

heard from after she left the islands!"
Suddenly Bob observed a stealthy movement in a
tangle of gear behind Dr. Marsden. It was only a flash
of color, vellow and black, but enough to warn him that

a dread danger stalked the decks of the Scienta.

He concentrated his attention for a moment on the
debris, while the others starred in awe at the strange
scence offered by the subternance world. Again
saw a faint movement behind it. Then in a flash he
realized what it was. Before he had time to shad a
warning to his commudes, the escaped jaguar behind the
debris sarred freedy and leeped full length at the back

of Dr. Marsden.

Bob's right hand was already baried in the pocket of his olitikins. It came out with a jerk, dutchking a 45 automatic. Patti screamed at the sudden, unexpected explosions of the gun. Bullets struck the big jumple eat in midsir. The jaguar seemed to hesitate and wilt. It pawed sursegly at the air, went limp and fell short of its victim. It struck the deck with a superting him. Bulland, standing nearest to Patti, guided her to safety.

But Bob's bullets had gone true. The jaguar lay dying, three bullet holes directly between its eyes. Sparks helped the scientist to his feet as the Scienta's

side scraped along the rusted hulk of the long-lost Cyclops; she buried her nose with a jar deep in the sandy beach. Norton made no effort to lend a hand. He stood leering stolidly, like a vengeful outcast.

"That was mighty good shooting, Bob," said Dr Marsden, extending his hand. "Thanks, old man."

Marsden, extending his hand, "I hanks, old man."
"We've got to be more alert hereafter, sir," said Bob
quietly. "There's still another jaguar running loose
on this thin."

From the forepeak came a sudden, long drawn out orry, it made 180% blood tingle. The other japaar had come up unnoticed from below and was perched no the forepeak rendy to leap abstone. Once again Bob supped up his automatic. But before he could fire at the beast it gave a mighty leap, passe outstreached the the pass of the passes of the could fire at the passes will loging accuracy up the beach to finally disarough belond a wall of matted vegetation.

They did not tarry long on the decks of the Scienta.

After filling gunny sacks with provisions and arming themselves with rifles and ammunition, they went down

a Jacob's ladder to the beach.

Timed as they were from a sleepless night and worn out by the trensited pitching of the develled during the storm, they thought it best to set out at once in search for any signs of habitation. They considered it a wast of time to look through Sparks scrambbel abourd the collect and found nothing to indicate the presence of its crew. They concluded that if any members of the unfortunate crew survived, they would have in all likelihood left the work to ment for an weare of assaye from the strange cartib-balle lein to which they had been On the beach, bowever, Dr. Marsden became very alert. His eyes roved everywhere in search of signs that might betray the presence of humans. They had not gone more than a mile up the beach, before his toe kicked up a small object which he retrieved quickly. "What is it father?" Patti asked.

"A small stone idol, Patti," the doctor replied gravely.

"It is distinctly Mayan."

"Well, let's get going, Marsden!" barked Norton curtly. "This is no time to look for idols!"

"You are at liberty to go alone if you wish!" snapped the scientist angrily.

the scientist angrily.

Bob chuckled softly. He gave the erstwhile skipper a sarcastic nod.

"That count to hold you for awhile. Norton," be

laughed. "You'd just love to go alone, wouldn't yon?"
Norton scowled at him in silence. Bob saw his hands
tighten on his rifle. His eyes narrowed. The look on
the ex-captain's face was enough to warn him to be on
his rusard. The man would bear constant watching if

he, Bob Allen, was to live very long.
"How do you suppose the idol got here?" Patti inquired queerly. "Do you think there are savages in the

vicinity?"
"I don't know," her father replied, frowning, "hat we may soon learn. Do you know, girl, that I believe we've stumbled on that for which I have been searching

we've stummed on that for which I have been searching for many years?"

Patti's eyes widened.
"You mean that this place is the lost continent of

Atlantis?" she asked.

The men listened intently for his reply. Norton seemed uninterested. Out of the corners of his eyes.

Bob shyly watched him.

"Of that, I'm normain," said Dr. Marndon, "but there is every indication of it being no, jodeing from the property of the control of the control of the time of the control of the control of the control of the time of the control of the control of the control of the momentum which I believe to have been Mi. Pédet. There causing all the vast lands surrounding it to subnorge the control of the control

"Subterranean disturbances have caused, at some time or other, great earthquakes and eruptions, and in sceling an outlet, the powerful gases created a great tunnel or blowout into which the Scienta was drawn. That is the only explanation I can find at the present for this tremendous earth bubble in which we stand now," he concluded, pocketing the idol cartefully.

They plodded on up the beach. Eventually they reached a break in the wall of vegetation. There Norton discovered a narrow trail leading somewhere inland away

from the shimmering lake.

Believing the trail would lead them to some habitation, they entered upon it without hesitation. Norton led the way, with Bob following close on his heels. Patil and her father came up between Bob and the crew which acted in the capacity of a rear guard. Finally Norton, after several hours of steady hiking,

e halted with an exclamation.

Hanging to a thong stretched between two twisted, evil-looking trees directly in the trail was a human skeleton! Its bleached bones were the same peculiar blue glow. Patti, accustomed to seeing the bones of men in her father's laboratory, as well as in the jungles, did not shudder at the sight. Instead she looked at it curiously, its grinning laws facing her, sightless sockets staring wide.

Norton exchanged glances with the scientist and then stepped back. "That's a warning of some sort, Doctor Marsden,"

he said quietly, "apparently placed there to stop anyone from going further on this trail.

"No doubt," replied the scientist. "I've seen such warnings before in Brazil. I always found it unhealthy to ignore them. But we've got to go on. If Indians hung that skeleton up there, our number and rifles ought to hold them in their places."

"It proves that we're not alone bere," interjected Bob

anxiously. "What do you suppose makes those bones glow as they do, as everything does here, Doctor?" "The place is fairly salted with radio-active elements, Bob," said Dr. Marsden quietly. "Notice how warm the ground feels under your feet?"

Rob podded. "Well," continued Dr. Marsden, "since there seems

to be no sun here to warm it, the earth must contain radium. Without radium or other radio-active minerals present to radiate warmth, this place would have a temperature far below freezing."

"There might be some volcanic activity below," suggested Bob. we would doubtless smell carbon or sulphur compounds.'

Dr. Marsden shook his head thoughtfully. "I do not believe so," he said. "If there was activity,

As if that settled the matter, they gazed upon the skeleton again. Then Bob unsheathed his machete, stepped ahead of Norton and slashed the thong. The skeleton crashed aside with a dismal rattle of bones. They went on past it.

CHAPTER IV

FIEUTENANT Bob Allen now in the lead, was tensely alert as he led the bedraggled castaways along the forbidden trail. After another good hour of steady plodding they noticed an abrupt change in the topography and in the character of vegetation. The ground began to descend suddenly. The trees and vegetation grew more twisted as if in torture. There seemed a certain transparency in them now that created no little interest and wonder in Dr. Marsden. The others wondered at it, too, but only the scientists appeared to know hypothetically the reason for the transparency.

The presence of radium became more and more conspicuous in every living thing as they proceeded. Because of its quantity or oxidation, Dr. Marsden thought, the radium seemed to have the effect of a powerful X-ray on plant life. But he was no master of physics, metallurgy or chemistry, and while he had his theories of the reaction of radium oxide on matter, he was not scientifically fitted to get at the bottom of the strange mysteries confronting him and to offer a concrete solution.

The descending ground, however, gradually became steeper until the going presented a problem. It was like climbing down a steep mountain now. But far below, half-hidden in a blue haze that shimmered like heat-waves on a flaming desert, lay an expansive valley, The trail, in places partly overgrown and never more than two feet wide, wormed its way down the precipitous slope toward it. So steep did it become eventually, that Bob remarked to Patti, that only a mountain goat could traverse it with any degree of safety.

Patti smiled grimly. Norton made an attempt to help her down a particularly steep incline and bungled her descent. Bob caught her arm as she started to slide. Regaining her footing, she gave Norton an indifferent smile. He shrugged his broad shoulders and went on, leaving her to ber own destinies. She held her own, however, and managed the grade without further

assistance.

She realized suddenly that she was very tired and weary. She felt a desire to throw herself on the ground and go to sleep. But gamely she fought off her feelings of exhaustion. After what seemed ages they attained smoother ground at the base of the mountain. How far down they had climbed from the lake they could not know exactly. Bob judged for himself that they must have dropped at least four or five thousand A wall of matted brush confronted them at the bot-

tom. The narrow trail wound about its edge, then finally entered the brush. A hole at some time or other had been hacked through the brittle undergrowths like a tunnel. Though Patti could have walked through it without bending over, she was nevertheless compelled to do so to escape catching her hair in low-hanging twigs or the stinging dust that frequently was shaken upon them by their contact with the growths. Bob and the others were compelled to stoop laboriously as they went on. Weighted down by their packs and rifles, this made the going all the harder for them. Yet none complained, except Norton who swore under his breath.

He walked directly behind Bob. Dr. Marsden followed him. Then came Patti, the erew behind her. It would have been a simple matter there in the semidarkness of the underbrush, for Norton to carry out his threat by shooting point blank at Bob. But he knew that Dr. Marsden was on the alert: that one significant move in that regard might cause the scientist to swing into action with his own gun. So Norton wisely betrayed no signs of hostility toward the man he

"I'll gamble this tunnel wasn't made by big men," Bob remarked over his shoulder. "Indians could hardly have made it."

"That's what I've been thinking," responded the scientist. "It's not an Indian trail. An Indian could not walk upright in it and they detest stooping, because its hard work. They'd go miles to get around this area

of brush. "There may be a tribe of pygmies living here," interjected Norton with some sarcasm. "Haven't you

thought of that, Mister Allen?" Before Bob could reply, his rifle suddenly flew from his grasp. The ground beneath him seemed to sink downward. He gave a yell of warning and vanished

from the rtail, dropping into a hole like a plummet. The party stopped short. Norton gave a suttural grunt of surprise, when he saw that Bob had vanished from view with a crashing of brush. Patti gave a muffled cry and went on. Her father held her back.

"Stand back, Patti I" he warned, "Bob fell into some sort of an animal trap. Keep away? There may be others l'

He rushed forward quickly and paused at the edge of a deep hole. The brush that had hidden it from view had fallen in under Bob's weight. He heard the lieutenant gasning for breath.

"Boh I" he called anxiously. "Are you hurt?" "I don't know yet, Doctor!" came Bob's voice from

the pit. "Drop me a rope, will you?" Dr. Marsden turned to Bullard who carried a coil of half-inch manilla line around his shoulders. "Drop him a line, Bullard!" the scientist ordered.

"Hurry I The rope was dropped into the pit. A half dozen eager hands were ready to pull him out. Norton hung

back, grinning amusedly. Patti gave him a disdainful

glance, but said nothing Dr. Marsden dropped to his knees and peered into the hole. Like everything else in the mysterious subterranea it glowed with the pale blue luminosity. He saw Bob clinging desperately to a thick creeper that had grown into the pit from the trail. A dozen feet below his dangling feet was the bottom of the hole. It was studded with long, sharp stude that would have impaled him had his fall not been checked. In a moment they had him out. His hands were bleeding and full of black

splinters. Otherwise he was unburt. "That was a close call, Lieutenant?" reflected Dr.

Marsden grimly. "I've been closer to death than that, Dr. Marsden," Bob returned, glancing at Norton. The ex-captain looked away, scowling,

"Let me bandage your hands," volunteered Patti. "They'll be all right," he smiled his appreciation. "We had better not waste any time now. I'd hate to get caught here at nightfall. We'd better go on. I'll fix my

hands later." "He won't die from a few scratches," declared Nor-

ton. "Let's get going?" Thereafter Norton took the lead. He slung his rifle over his shoulder, cut himself a long pole and probed the trail ahead of him as he went. He was taking no chances on being hurled to his death in another hidden

trap. "Some poor devil went to his death in that trap, Dr. Marsden!" Bob confided in the scientist as they went on. "There was a human skeleton impaled on the studs.

I saw it!"

"We'll have to be careful," said the scientist, "There may be others. They're man traps, no doubt. The skeleton on the trail was the warning. I should have

jungles of Brazil." "I've been wondering if the poor devils were from one of the ships on the lake," said Bob quietly.
"No telling," returned Dr. Marsden. "They might

be the remains of Indians. We should have searched the pit for a clue." "Too late now," said Bob glumly. "It wouldn't have

done us any good. But that trap had been re-covered since the fellow fell into it. That much is certain, for until I fell, I hadn't seen the slightest break in the trail. The hole was cleverly concealed."

"Oh, we're not alone here, Lieutenant," Dr. Marsden frowned. "You can lay your life on that."

Norton's long pole suddenly punctured the trail ahead of him. He gave a snort and stopped short

"Another pitfall, Marsden," he said bluntly. "We'll

have to hack our way around it." Two men came forward with machetes. Norton directed them to widen the trail around the hidden trap

Meanwhile, Bob and Dr. Marsden broke away the covering and peered into the pit. Two human skeletons grinning grotesquely, lay on the bottom, sharp spikes sticking upward through the bare ribs that were still

held together by hardened cartilage. "I'm going down to investigate," said Bob decisively.

"Looks like our friends had become frightened by the trap back there and started to run along the trail. As a result of their haste, two more went down, He ordered Bullard forward with the rope. Ouickly

he slid into the pit, lowering himself between the murderous studs that reached almost to his waist. With a flashlight he glanced over the skeletons. Clothing hung in shreds over the bleached bones. The stench was almost overpowering. But from between the stude he fished a rotting officer's cap, thrust it into his shirt and called to the men to haul him back on the trail. Once on the trail again he carefully studied the cap

inside and out. Dr. Marsden and Patti looked on in silence. On the underside of the crown had been stamped in ink the name of the man who had owned it But the lettering was so faint that reading was difficult in the dim. blue light. With his flashlight, Bob made out the name and grunted.

"Why, this hat belonged to a chief quartermaster of the Cycloss!" he exclaimed.

"Hmmm!" Dr. Marsden mused. "Poor devil! Lord, how he must have suffered impaled on those spikes before death overtook him!"

Bob nodded with a shudder. "I've been thinking," he reflected, "that maybe the Cyclops was a deserted derelict when she was sucked into the cascade. But this proves she still had at least part of her crew aboard. We may find some of them living here somewhere.

"I hope so," said the scientist.

THE trail was quickly widened around one side of the pit. They continued unwillingly; all were weary and cautious. It was stifling under the matted vegetation. Rank dust kicked up by Norton's cautious feet and probing pole made those behind him cough and gag. At length Patti dampened her handkerchief from a canteen and tied it over her nostrils. This gave

her some relief from the choking dust

There was considerable pulverized sulphur, among other things, in the dust that swirled about them in guessed it. Trail traps or pitfalls are common in the clouds of delicately-tinted vellow and blue. It made the nostrils burn, the lungs ache and sting. There was some element of torture in the dust that quickened the heart and overheated the blood, causing it to run like water in the veins. This peculiar sensation, which to Patti was like stepping into a tub of water too hot for comfortable bathing, was made more unbearable with

every step. Lips became parched and feverish. They drank sparingly of their water, not knowing how soon they might refill their canteens. Beyond the lake, there seemed to

he no water in the subterrane. But they could indistinctly hear the sound of water rushing somewhere overhead. It sounded like breakers rushing headlong on a rock-clad shore. It dawned upon Dr. Marsden suddenly that they must be far beneath the ocean floor. The thought startled him. He gave Patti a grave look, then glanced at his watch.

It was 12 o'clock, the bour of midnight on the surface of the world he knew. Yet here, there seemed to be no change from night to day or vice nerva. He wondered if the dim blue light was a fixed feature of the subterrane and concluded after a bit that it was, due to the glow of the radio-scrive elements everywhere.

and the total absence of any smilight.

His thoughts and speculations were suddenly diverted
by an exultant shout from Norton. They had just
rounded a sharp turn in the overlamp trail and now the
open valley lay directly absend in a bise fog. Bob gave
as high of relief when he realized that at hat they had
negotiated the low tunnel. His back and nock abed
violently from the strain of constant strooping. They
followed Norton forward hurriefly, their hopes home
unward by the thought of settline out of the misery.

forced on them by the brush.

Norton was the first to reach the open. He had been in advance some fifty feet. On seeing the end of

been in advance some fifty feet. On seeing the end of the brush tunnel and praying for relief for this aching back, he broke into a scrambling trot. Without causion he literally ran out of the brush, almost bindly. Before he realized it, he found himself tottering on the edge of a sheer precipice. He gave a cry of horror and fell back as the others emerged into the open. "What's un. Norton?" Bob hissed, burrying to his

"My God, Allen!" Norton muttered, a strange note

of terror in his voice. "I nearly fell into hell's own ptl I Look!"

Bob looked forward with a gasp of surprise. Stretching out before him as far as he could see through

the blue haze, was a monstrous, circular bole in the ground. The trail broke off abruptly at its edge. He crept cautiously forward and looked down into the pit. It was like a mammoth crater illuminated by blue lights. And in it at the bottom were countless moving ob-

And in it at the bottom were countless moving objects that held his attention as if he were suddenly transfixed. With a sensation of horror running up his spine, he watched, unable to believe his own eyes at what he saw.

The bottom of the pit fairly swarmed with unnum-

bered human skeletons performing some menial work

there!
Human skeletons! Moving about in animation like living beings.

It was preposterous! Incredible!
But there they were! He was seeing them with his
own eyes, though the hole in which they moved was so
large and deep that they looked no bigger than pygmies!
He blinked his eyes to make certain be was awake and
not dreaming a nightnare. He discovered that he was

very much awake and that the animated human skeletons were very real indeed.

Yet he looked on incredulously. They moved about the bottom of the crater like so many ants. Then he made another startling discovery. Nestling closs to the walls of the abusys were many strange pieces of machine

ery, so large that they dwarfed the comparatively tiny ghosts that moved about them.

He had not observed the machinery at first, so fascinated had he been by the animated skeletons. But he took them in quickly now, noting carefully that they were being attended by the ghostly creatures whose bones moved about like men.

"I must be dreaming!" he told himself aloud. "Why, skeletons simply can't walk around like that! And the machines, why—"

"What's that, Bob?" Dr. Marsden crept up beside him. Bob had not been aware that he was talking to himself aloud. He jumped at the sound of the scientist's wive as if he had been revised with a peedle

himself aloud. He jumped at the sound of the scientist's voice as if he had been pricked with a needle "I said skeletons simply can't crawl out of a grave and walk around like those in the hole are doing?" he

said weirdly. "Take a look down there, sir! It's hell's own pit! It's like a world of the living deal?" Dr. Marsden crept closer to the edge of the pit and peered into it. For a long time he stared in silence at the strange, appalling sight. Bob watched tensely fascinated. Norton, leading Patti and the others came forward quietly to peer over the precipiece. Patti

dropped to the ground between Bob and her father. When she observed the spectral scene below, sh gave a shrill cry of horror. The skeletons paused it various attitudes of listening, as if they had heard herry. Then one of the sailors, in his surprise at seeing human bones moving about like ghosts of men, accidently lost hold of his rifle. It went clattering loudily

cry. Then one of the sailors, in his surprise at seeing human bones moving about like ghosts of men, accidently lost hold of his rifle. It went clattering loudly down the atterp incline of the pit, gathering rocks and delbris as it went. In a trice a fair-sized earth side was in progress down the steep alone, creating a rattling din that increased to a bollow roar as it proceeded.

There was a sudden rush of selections to the far side

of the crater as they sought to escape being buried by the slife. Then Bob heard a man's rateous voice yelling up at them. But he could not catch the words though be recopited they had been called out in his own tongue. He knew instantly that they had been seen and he wondered what sort of a reception they were duto receive. He was soon to learn, however, for as the slide

reached the bottom, burying several units of machinery under it, a projectile-like object darted into the bid air from an obscure section of the abyss. It shot upward at a diray pace and was followed by another and another until a half dozen of them swarmed through the blue haze like so many grotesque birds of prey. As they darted birbers swarmine over their heads.

As they darted bigber, awarming over their heads, they made low, hissing sounds. The castaways watched them with growing concern and observed that they were propelled through the air by ejections of pale, blue gases shot from small tubes which projected from all sides of them like studis.

SUDDENLY they massed together over their heads and hung motionless in the air, tiny jets of blue flame shooting from them on all sides. They were much larger than they had first appeared and Bob calculated silently that each could transport at least a

dozen passengers.

But his calculations were decidedly in error. A trapdoor on the bottom of each machine slid suddenly open.

From each plunged in quick succession, scores of weirdlooking creatures to whose bread shoulders were attached small Brijing devices which, they all observed.

enabled them to fly through the air like individual birds.

Attached to the mysterious devices were small whirl-

ing propellers that made no sound as they spun along.

They dropped downward with a slow, gliding motion.
As they came nearer, Bob noticed that each filer held
in his grasp a peculiar wand-like tube no less than a foot
long and about as thick as a man's thumb. They were

long and about as thick as a man's thumb. They were too high up yet for him to make out their features. But he observed that they were unlike any living thing of

intelligence he had ever seen before.

They appeared menacingly hostile in the manner in

which they cautiously descended. They held their tubes in front of them as a man would a pistol. Bob slid his infe forward sliently and elevated the muzzle so that it was in line with the foremost creature. But he had no intention of pulling the trigger without ample cause. Yet in his excitement and hewilderment at the appearance of the fliers, his finer tribstened unconsciously on

the trigger.

Out of the corners of his eyes he saw Norton stealthily bring his rifle into line with a descending creature. "Hold your fire, Norton!" he hissed at him. "They may want to talk. Don't shoot until they start something."

"Oh, Boh," Patti whispered as if suddenly sensing something untoward. "I'm so afraid!"

"I don't like their looks," said Boh grimly. "We're ready for them!"

He hissed again at Norton.

"Pass word along to the men, Norton," he urged quietly, "to shoot the minute they start anything."

Dr. Marsden was silent. He watched closely every move of the strange filters. They were coming ominously near now. He quietly counted their number and discovered that his party was outnumbered twenty to one. But for the peculiar wand each filter carried, they

seemed unarmed.

Yet, Dr. Marnden was too shrewd to be fooled in that respect. He understood that creatures, with the intelligence and genius to build and fly siferraft, must also be reasonably skilled in the making of deadly weapons. He was not deceived into believing the wand-like tubes were to be offered as proverbial olive branches, though there had deen no indication vet be-

traying that they were weapons of any kind.

He became interested in their uncanny shility to hover
so unconcernedly in the air. They had no wings; nothing to hold them aloft except the tiny flight devices.

He saw, as they came closer, that they resembled men, but in caricature only.

They were near enough now for him to observe their physical aspects. They had two logs, extremely long and skinny like those of a stork. Their arms were as long as their legs and as lithe and sinusous. They had very small backs, the torso ending abrusply under the and they had the hulfing chest of a blower pigeno. On their head they wore dunce-like hats held in place by a wide chin-stay. Though he could not yet see their

faces, he felt they were as grotseque as their bodies. Suddenly they spread out in a line and then as if hy signal, plunged downward in a hurst of speed. As they came they held their wand-like tubes thrust out before them, menerally! Do held his blood insight, expecting the continued of the control of th of his rifle. The explosion broke the taut silence like a peal of thunder, echoing and re-echoing across the deep abyss.

Instantly the excited sailors began firing at the rapidly descending horde. Bob watched, cursing, for the effect of the bullets, and was amazed that not a flier betrayed the slightest indication of having been hit. Then he

of the slightest indication of having been hit. Then he raised his own rife and took deliberate aim at the bulging chest of a creature nearest to him. He held his cheek grimly to the stock of the gun and was perfectly confident that he would not miss.

Then he deliberately pulled the trigger. The gun leicked against his shoulder as it sent its messenger of hate into the air. But the flier he had fired upon did not throw up his hands and tumble out of the air as he had anticipated. Instead he saw the creature jerk its

had anticipated. Instead he saw the creature jerk its tube in direct line with his head. Then from the thing shot an inconceivably brilliant beam of light. It struck him squarely in the eyes. His head spun and his senses reeled as if he had been hit on the forehead with a heavy club.

He let go his rife and reeled sideways, dimly aware that Patti was screaming fearfully. Mingled with her cries he thought he heard rifle shots, but was not certain, for his head seemed filled with strange noises. His hands automatically went to his eyes. He rubble them sigeously as it is ally the stingling, hurming sentlem stranger of the stranger of the stranger of the filler's ray. Then suddenly he realized that he was as billed as a bat!

He arose to his feet and stumbled backward, blindly, away from the abyas. His eyes burned like fire; his bead ached with maddening violence. He stumbled over a rock and fell headings. He heard Patti scream again. Then all became silent. He fought desperately to see what was happening to her. But the world had suddenly become dark. He saw nothing but blackness. He grounder plintlelly, rubbing firerely at his blinded

Suddenly he felt something, like a pair of strong hands, clutching him under the arm-pits. He was jerked roughly to his feet. Hopefully, desperately his sightless eyes searched around him. But he saw nothing through the curtain of Stygian blackness that had spread over him.

"Is that you, Dr. Marsden?" he mumbled, vaguely aware that he was heing lifted clear of the ground and into the air. There was no reply. His senses were reeling like those of a man coming out of an anesthetic. After what seemed eternities of flying through space, he felt a vivid sensation of falling rapidly sensation of falling rapidly.

At length be thought he felt his feet touch solid ground again. He was not sure. His legs were alarmingly weak. He felt them buckle under him. The pain in his eyes was intense, almost beyond endurance. From his oarched lios came great gans. Sweat stood

out in beads on his face.

Again he felt binned I picked up, this time it seemed, by the legs and shoulders. He felt something or someone push open his flaming eye-lida. He imagined be ought the mell of an odorous liquid. Then he felt awarm ambitance trickling into his open eyes. For a momenta the was stunned almost to insensibility by the momental the was stunned almost to insensibility by the last been plucked from their sockets. The pair he creased in its maddening intensity until be scramed.

fighting desperately to escape from the grasp of whatever it was that was holding him down.

Then the mercy of complete senselessness fell upon him like a shroud of death. Two animated skeletons, lorded over by a grotesque flier, carried him off the floor of the abyss and into a long corridor that ran

diagonally underground from it.

W HEN Bob Allen regained his senses he found floor in a dimly-lighted underground room that was without ventilation. He awoke with a fit of coughing, to discover that his vision had been restored. For a long time he lay flat on his back staring at the eerie, blue-glowing roof above him, wondering if he was dreaming that he had been blind. He rubbed his eves hard and blinked to make sure he was awake. There was no mistake. He was wide awake now and could see perfectly. The indescribable pain had left him and while he was not aware of it, his eyes were swollen to almost twice their normal size. They appeared ready to pop out of their sockets. The lids were inflamed to a cherry red. But the pain had left them.

The blue glow of his surroundings told him plainly that be was anything but dreaming. He had been totally blind, be recalled. But, he asked himself silently, why had the Subterranean fliers taken the trouble to restore his sight? He wondered if the odorous liquid they had forced into his eyes out in the crater had reacted against the effects of the blinding ray. But why had they returned his vision to him after he had deliberately attempted to kill the flier who had blinded him? Did the Subterraneans know no vengeance? Or had they merely restored his sight for reasons that would serve their own purposes?

A slight movement beside him attracted his attention. He stiffened and glanced furtively aside. What he saw there caused him to lean almost out of his skin. With a gasp of surprise and borror he recoiled, eyes wide. While he had lain staring at the roof, an animated human skeleton had been sitting calmly beside him, its awesome presence unknown to him. The shock and horror of seeing this ghostly and revolting thing made his blood run cold. He leaped up and crouched.

"Don't get excited, buddy!" the jaws of the skeleton moved as it spoke in a calm, almost amused tone. Bob was stricken dumb for a moment. He stared at the ghostly thing before him in awe and horror. The skeleton's jaws moved again. The thing's voice was brittle and rasping. "I've been put here to watch you, skipper, the fleshless jaws put forth. "Don't try anything and you'll live for the present."

"Who-who are you?" Bob gasped, overwhelmed. "A

ghost, or what?" The skeleton laughed outright. It was a hard, bitter

laugh, with a ferocious note in it that made Bob wince. The grisly jaws closed suddenly with a vicious snap. "I'm not a ghost, skipper," the skeleton said bitterly, "but many's the time I've wished that I was! It's been hell here these fourteen years since the Cyclobs took a dive into a cascade and stranded us in this dirty, rotten

hole !" "You're from the Cyclopst" Bob gasped incredulously. "Chief Engineer of the Cyclops, skipper!" the skelton said. "The name's Scoops Larkin! What's yours?"

The skelton of Scoons Larkin stood up and extended a horrible, grisly hand in a gesture of friendship. Bob hesitated in taking it, but finally extended his own hand. He watched it, as he would a snake, and saw his hand grip the bones. But instead of feeling bones, he felt warm, friendly flesh! He looked into the eyeless sockets with a shudder. "I know how you feel, shipmate," said Larkin quietly.

"It's hell to shake the paw of a skeleton, isn't it? Bob nodded in awe.

"Your hand feels like any other," he said shyly. "But good Lord, I thought for a minute I was going to get a handful of bones 1"

"You just can't see the flesh, that's all," said Larkin, eving his hands bitterly. "All we ever see of each other here are bones, bones, bones; God, it's terrible! It's a world of the living dead, skipper, so far as we humans are concerned!"

"I don't look like a walking skeleton, do I?" Bob grim-"Not yet, buddy," replied Larkin with a snap of his

jaws. "But you will before very long!" Why?" asked Bob, feeling Larkin's arm curiously.

His fingers touched perspiring flesh. But he saw only the man's arm bones. There was a gap between the bones and his hand. It made him shudder,

"When they put you to work in the radium mines," said Larkin, "you'll become a walking skelton like the rest of us!"

"Radium?" Bob asked dumbly. "Aye!" Larkin grunted. "The place is full of it. It

runs in veins, like gold, through the big hole. This place, the walls, the ground, everywhere, is salted with it. It lights everything with a blue glow! In the lingo of the Subterraneans, radium is known as toos. After human flesh is exposed to it for any length of time, it causes the flesh to become even more transparent than glass, leaving only the bones visible. You and your outfit'll be compelled to work with us in the radium mines. After a couple of weeks, you'll look no different from me, or the others I"

"Radium kills human beings, who are exposed to it, in time, doesn't it?" Bob gave him a weird look "It does, skipper!" growled Larkin. "It's the deadliest thing in the world. But every so often we are put

through a normalizer that overcomes the effect of the teas on our system. But it doesn't react to the transpareney to my knowledge. It might. Anyhow, the Subterraneans say it doesn't."

"So you're mining radium here, eh?" Bob ruminated. "Aye!" replied Larkin. "And you'll be surprised when I tell you why!"

"Why?" Bob watched the engineer's grisly face expectantly. "The tags is being mined for use against our people on

the surface!" Larkin snarled ferociously, "With it the Subterraneans intend to wipe out humanity and take over the surface for their own use. Why, skipper, there's enough radium already stored away in their arsenals and laboratories to split this old world forty ways from Saturday night!" Bob whistled in astonishment.

"What the devil do they want to wipe us out for?" be asked. "Aren't they satisfied with what they have

"Why did the Kaiser want to rule the world?" Larkin's jaws snapped. "Power, of course! Certainly the

750

Subterrancans are satisfied with what they've got. But they want more! They want the surface because they're so overpopulated here that they're packed like sardines in a can. Moreover, they have objections to our people pumping oil out of the earth. Oil is to the Subterraneans, what water is to us. They drink it. Their lives depend on it and naturally they can see the time when there won't be any more oil. I guess we'd raise plenty of hell, too, if somehody started taking our water from

118.10 "It sounds incredible," said Bob quietly, "Fantastic," "Fantastic, huh?" Larkin grumbled. "You wait and see! You haven't seen anything yet. Why, the Subterraneans have created the deadliest implements of war this world has ever known. It was one of their brilliaroys that made you blind! They shoot the rays from metal tubes. The rays emanate from radium confined in the tubes. The brillig-ray is only one of a dozen they can shoot from their radium guns. The tous tubes have a dozen small buttons on it, the pressing of any one of them will put a man in a helluva fix. They can also project a beam we call the hiden-ray that will destroy the muscles of a human body, making it a hopeless cripple as long as it lives. That's not long, skipper! Press another button and-pouff-you just vanish from the earth in a ouff of blue smoke! I've seen 'em use that one, too, on one of our men who got stubborn. We've never been able to see all the rays they have, but what we have seen are bad enough! The Subterranean scientists have got us beaten to a crimo! Krupp, Lewis, Fokker-why they're just kids compared with the scientists here. And here we are, helping them get ready for their big push against our own people!"

"When does this big push begin?" Bob's voice trem-"Begin?" Larkin barked fiercely. "Why it's already started! They've got tunnels bored under New York, Chicago, San Francisco, Berlin, Paris, London, Tokio-

everywhere! And the tunnels are so big that fleets of taas fivers can navigate in 'em a hundred abreast!" B OB stared at him incredulously. It was unbelievable!

nels," he gasped. "Centuries hell!" said Larkin. "They were run to within a half mile or so of their objectives in the past two

years !" "You've kept a record of time since you came here fourteen years ago?" Boh asked, overwhelmed.

"That was easy," the other snorted "Well, isn't there some way Washington can be warned of the threatened raid?" asked Bob tensely.

Larkin laughed outright like a mocking ghost. "Did you see a human skeleton hanging over the trail

as you came here?" he asked, sobering "We cut it down," replied Bob bluntly. "Well, that skeleton once held the flesh of the Cyclops"

radio operator," snapped Larkin sharply. "He tried to get back to the ship to get the wireless working and send a message to the outside for help. They shot him with a hideo-ray to torture him. After that they let him have a strip-ray that instantly removed the flesh from his bones! Then they hung up the skeleton to warn others and had secret pitfalls dug in the trail to trap any of us

who might try to escape that way. Several slipped away, but they never came back. We've been hoping they got

nest the trans." "They didn't I" said Boh grimly. "I fell into one. Skeletons lay on the bottom, impaled on snikes. But

tell me, Larkin. How did they manage to drill such long tunnels in so short a time?" "Radium guns!" said Larkin. "They look like big cannons, only they shoot a kind of radium gas that melts

away everything in their path. That's how! Why, in a month's time they can complete the tunnels and be on the streets of every large city in the world!"

Boh stood silent for a moment, studying Larkin's ghastly face reflectively. Larkin returned his stare

through apparently sightless eye-sockets. "You think they'll use the radium-cannon on our peonle?" Bob asked at length, shuddering,

"Aye, skipper I" snorted the engineer. "And they'll

destroy cities like New York with a single volley!" "They have cities of their own underground?" queried Boh anxionsly. "We were taken direct to the Subterranean palace

when we were captured," said Larkin. "They have one his city surrounding it. It is about twelve miles underground from here and is called 'The City of The Queen.' Everything is of metal there-probably nickel. The whole Subterranea is ruled by a big, cold-blooded wench with the face of a erow and the heart of a snake. She's been up here to the tass mines twice to look us over. She has a fondness for big, strong sailor boys!" "She eats them?" Boh grinned sourly. "Worse than that!" said Larkin. "She's a vampire!

She'll take a man down to her palace. After playing with him like a cat toys with a mouse, she sucks his blood. You'll be seeing her soon. She'll be coming up here to look at you and your outfit. They're a strange lot-the Subterraneans. Radium doesn't seem to affect 'em. I'm told that the oil they drink prevents the taas from making them transparent. That makes it tough on us, because we can always be spotted by our bones."

"How do you recognize your friends?" asked Bob. "All skeletons look alike." "When we want to talk to a buddy, we've got to call out his name," replied Larkin. "If he's handy, he comes forward waving his arms, or else he calls back to you.

How many men in your outfit, skipper?" "I had thirty-seven men and one woman with me on the crater-rim." Bob declared quietly.

"A woman?" exploded Larkin in surprise. "I didn't see any woman when they brought in the captives I" Bob's heart almost stopped beating. He looked long and hard into the eerie face of Larkin's skeleton, as if

searching for signs of a lie. He saw only the grisly features of a human skull, ghostly, unemotional. He felt a lump rise in his throat and swallowed it with difficulty.

"My God, Larkin!" he grouped finally, "Don't tell me she wasn't brought here with us!" "There wasn't a woman in the lot, I swear!" declared

Larkin gravely. His voice bore a distinct ring of truth. "I'm certain of it! I saw you all laid out, blinded. Had there been a lady with you, I'd have certainly seen her!" Bob huried his head in his hands and stood in silence for a moment. Larkin heard him sigh heavily. Suddenly he tensed. He looked again at the engineer, a ferociotu

animal light in his half-closed eyes. "She was dressed in a man's clothing, Larkin," he said hopefully. "Maybe you overlooked her." Larkin shook his head. "There was no woman brought in, matey," he stated

"There was no woman brought in, matey," he s with bitter finality.

"Then she must have escaped into the brush!" Bob snapped as if grasping at the last straw. But again Larkin shook his grisly head.

"There's no escape from the Subterraneans once they set after you, skipper," he said. "There was a fight on the rim. I learned they left three skeletons up there. A blue strip-ray hit 'em, stripping the flesh completely from the bones. Maybe you'll find her there. . ."

"No! No! It can't be, Larkin!" Bob cried, grasping the engineer savagely by the arm. "They wouldn't kill a woman like that?"

a woman like that?

"Don't kid yourself, skipper!" grunted Larkin. "Sex doesn't mean a thing to the Subterranean devils, particularly where human beings are concerned. They'd kill a woman as quick as a man if she didn't do as bidden."

"Where are the others, then?" Bob demanded.
"Under guard in another room," replied Larkin,
"Who are they? How'd you all get in here?"

"The owner and crew of the power yacht, Scienta," said Bob in a shaking voice. "I was captain. We were washed ashore by a hurrimen after a waterspout smashed our steering gear. The ship was sucked into an underground watercourse and finally ran into a lake. The girl was Patti Marsden, daughter of the Scienta's owner, Dr. Marsden. My name is Allen-Lieutenant

Bob Allen, late of the U. S. Navy."

"Glad to know you, Lieutenant," said Larkin crisply.

"The girl mean anything to you?"

"Mean anything to me?" Bob looked at him like a caged animal. "Why, she means everything to me. Arkin! I resimed from the Navy to be with her. Now

she's gone!"
"Tough luck, old man," said Larkin grimly. He was
silent for a moment, then added. "But life's like that.
Maybe you'll be mightly glad later that she's not here to
share our hardships. We're gonig to be in the middle of
hell before long!" Then, as if to change the subject, he
included. "You say your ship took a dive into a subter-

raneau channel?"

Bob nodded in gloomy silence, like a man stunned speechless.

"The Cyclept ran into it, too," Larkin continued, "We he has harriane after leaving the Barbados. We were beaded for Hampton Roads. But a German agent had rigged up a time bomb to our enginees. It exploded during the storm, putting the engines out of whack and killing nime men. We tried salls or a time, but the hurrising nime men. We tried salls or a time, but the hurrism of the sall of

Suddenly he tensed to listen, as the faint sounds of footsteps reached them from the corridors outside the room. Bob looked at him anxiously. Larkin gave him a nod.

"THE SUBTERRANEANS!" he whispered softly.
"They're coming now. Take my advice, Allen, and do what they tell you. You can't get away and to be stubborn means certain death for you. They live you you work with na attending to the tasa-extracting machines. But keep a stiff upper Jip. It'll be a lot easier for you. And that automatic you have in your pocket,

sook better not try to use it, for bullets are ineffective against the devils, because they wear radium armor that disintegrates lead and steel as it strikes. If you try to shoot any of them, they may blind you permanently or skin your bones alive!"

"I'll do my best, Larkin," Bob glared at him, standing with his back against the wall. "Thanks for the advice. But you had better hide my pistol somewhere. I might

want to use it effectively sometime."

Larkin looked at him curiously, as if reading his thoughts.

"Suicide won't help our people on the surface, Allen," he whispered reproachfully. "We've all kept on living, hoping that some day we might have the luck to get out

hoping that some day we might have the luck to get out a warning. Forget your gun! Let 'em take it. I've got a better weapon ditched away. It's a taas gun and I know how to use it—if I ever get the chance I want." Bob stared at him quitzically, wishing that he could

see the face of this man instead of his repulsive skeleton. Mentally he pictured Larkin as a square-chinned individual with hard-fighting eyes and broad shoulders: a he-man if one had ever enlisted for service in the United States Navy.

But at that moment an orderly squad of metal-earlied

But at that moment an orderly squad of meta-garden subterraneans marched into the room, their long, skinny, stork-like legs carrying them forward swiftly. Bob appraised them coldly, but with a certain sense of repulsion, as they advanced toward him. Larkin stood aside calmly. Now he seemed like a man who had lost his spirit, so docile and submissive was he.

It was the first time Bob had an opportunity to see what the Subterraneans really looked like. As Larkin had said of their Queen, they had sharp crow-like features, with eyes deep set and as penetrating as gimlets. They flashed at times in the blue glow like the eyes of a striped cobra, green, flashing with unspeakale vernom. They had no chins and their mouths were without lips, being more bird-like than human.

Their stubby, broad-shouldered bodies, long skimy arms and legs were as groteque as their ugly faces. Their skin, if Ibbs could have called it such, vasible only at the thich endest just above the metal armore, was a scales that under certain shadows glistened like the body of a humming bird. Their hands were finely developed, having three even-sized fingers and a thumb of equal length. They looked as if they had evolved from the tasks that the state of th

As if by signal, they paused in the center of the room. Two of them stepped forward and stood before Larkin. The engineer stiffened to attention. After a moment's silence, Bob heard him speak to one of the Subterraneans.

"Yes, O Masters," Larkin said as if in reply to a silent query that had been put to him by the Subterraneans. "This prisoner is ready for work."

Bob stared at the engineer's skeleton quizzically and then switched his attention to the Subterraneaus who stood before him. One of the creatures opened his mouth like a frog snapping at a fly. The jawas closed with a powerful, brittle snap. Bob recognized it as a signal to the others, who came forward at once. Without preliminaries they striped him to the waits.

At the first touch, he had an impulse to resist, to send

his enraged fists into their unemotional faces. But he held himself in check, realizing that it would be futile to fight. But he hated the touch of their hands on his skin. It made him feel cold and clammy.

He watched them go through the pockets of his jacket and wondered why he had not been searched before They took possession of his automatic, regarded it contemplatively, then hurled it to the floor. Instantly one of the creatures snapped his taas tube in line with the pistol A thin, dull blue ray hissed from the tube. Bob was astounded to see his pistol disintegrate before his eyes. He blinked incredulously. In place of the automatic lay

a tiny heap of dust! He swore angrily, rebelliously. He closed his fists and crouched, ready to fight. Tass tubes were instantly pointed at him.

"Don't be a fool, Allen I" snapped Larkin. "They'll

kill you!" Reason got the upper hand of emotion and Bob relaxed. His swollen eyes flamed with hatred for these mysterious, hideous Subterranean killers who had no compunction about stripping the flesh from a woman's bones. He realized that they would unceremoniously do the same to him on the slightest provocation. He

shrugged his shoulders resignedly. As if reading in his mind that he would offer no further resistance, the Sub-

terraneans lowered their weapons. Instantly thereafter he felt a strange sensation at the base of his brain. It was as if someone had pricked him there with a needle. It made him jump. Instinctively he looked around. Then he saw that one of the creatures was regarding him intently. It dawned upon him suddenly that the Subterranean was giving him a warning by means of mental telepathy. It was the thoughtwaves that gave him the strange sensation at the base of his brain. He felt them impinging forcefully on his mind.

"Surface dweller," the creature's thoughts were stamped indelibly on his mind, "as long as you live bere in the Inner World, you must never raise your hand or your voice in anger against your masters, on penalty of death. You cannot escape. To attempt to do so will bring certain doom upon you. You are condemned to work in the taas mines until you are dead. The Queen has spoken!"

NWARDLY rebelling against the prospect of a life of laborious toil in a strange land and for despised enemies, Bob Allen leered at his captors in contempt. Better were he dead a thousand times, he told himself, than become a common slave. The muscles along his jaws hardened. A look of bitter hatred sprang into his

"You can tell the wench for me," he snarled at the Subterranean, "that I'll wring her ugly neck if I ever get the chance! That goes for you, too, you dirty crowfaced killers?"

The Subterraneans seemed most thoroughly shocked at that. Bob, hands on his hips, stood glaring at them, not caring whether he lived or died. Subterranean jaws clacked in anger. Cobra-like eyes glittered resentfully. With a jerk the foremost Subterranean brought up his taas oun to mete out instant justice to this hated and despised surface dweller who dared speak disrespectfully of the Oueen of the Inner World.

And had it not been for the intervention of Larkin

at that desperate moment, Bob Allen would have been annihilated without further ado. Larkin hurled himself between the lieutenant and the Subterranean, beseeching, begging the Inner World man to be lenient.

"He is not in his right mind, O masters!" the engineer cried. "He is crazed with grief over the loss of a woman he loved. Spare his life, O masters! Give him

another chance!" For a moment Bob thought the levelled taas tube

would send them both to their doom. The Subterranean stood undecided, holding his tube menacingly, one of his long fingers playing over the release-buttons on the instrument of death. But after a moment of dread uncertainty, be lowered the weapon to his side and with his free hand, pushed Larkin aside

The Inner World warrior stepped up close to Bob Before be could dodge the vicious blow, the metal tube was suddenly lifted and brought down viciously across his head. With a groan be sank to the floor, blood trick-

ling down his cheek. As he dropped, he felt the Subterranean's thought-

waves impinging again on his brain. "The Queen shall learn of your disrespect, O dog of the Surface!" the creature informed him with deadly

force. "It is better that I let you live now, for she will want to chastise you in her own way! Get up. O dog!" Larkin helped him to his feet. The sound closed in around them. They were marched out of the room, Bob recling at every step, his head throbbing violently

"You're in for it now, skipper!" Larkin whispered as they went along a corridor toward the open. "They'll suck your blood and throw you to the pachydactyls!"

"I don't care a damn what they do, Larkin!" Bot snarled. "If I die, I'll take a few of them with me You can lay your life on that!" "Lot of good that would do," hissed Larkin. "It

would be like taking a few grains of sand from a beach and throwing it to the winds. The population of the Inner World runs into trillions. Overpopulation, as I told you, is one of the reasons why they want the

"Well, they haven't got it yet!" Bob growled. "How come they talk our lingo? And what the devil is a bachudactui?"

"No, they haven't," reflected Larkin. "But to my way of thinking, they'll get it right enough. They know our palayer because our minds are like open books to them. They have the power to learn our lingo merely by reading the mind. Having no vocal organs, they can't talk. But they can project their thoughts to another brain in a way that makes you understand as if you were talking with them. It's just mental telepathy

"As for the pachydactils," he added, "you'll see one of them if you live long enough. They're the damndest animals I ever saw. The Oueen keeps 'em in her nalace They are held in veneration by the Subterraneans. They worship these animals as heathens worship stone idols They look somewhat like elephants with bat wings. They're flesh eaters and are to these heathens what the sacred cow is to India. Well, here's where you begin to

work as a slave for our crow-faced friends, old man!" They had reached the open. The creat crater, with its hundreds of animated burnan skeletons, opened out from the corridor. Bob's first act was to look longingly

up at the rim of the crater where the fight had taken place. He looked around for Dr. Marsden.

The scientist, Norton, and the others stood in a group a short distance away under guard of a squad of Subterranean warriors. They had been stripped to the waist

and looked strange in such spectral surroundings. The living standing among the animated dead! Quickly Bob counted his companions from the Scienta,

ending up with himself. He made a startling discovery and felt a sudden stream of hope sweeping through him. He turned to Larkin grimly.

"Did you say three of my party had been left dead on the rim?" he demanded, scarcely able to control his

Larkin nodded his creamy-white skull, "Are you certain of that?" Bob hissed.

The engineer nodded his head assuringly. "I was told they left three skeletons up there," he replied.

"I've counted my men," said Bob quickly. "Three of them are missing. But that doesn't include Patti Marsdeal. Had she been left up there, four skeletons would remain. Patti Marsden must have escaped into the brush."

"I doubt it, Allen," said Larkin. "There is no escape from the Subterraneans If there was, I'd have been gone long ago! But maybe I'll learn something about her. If I do, I'll let you know at once."

A guard tapped Bob lightly on the shoulder with his taas tube and motioned him forward. He was prodded over to his companions. Dr. Marsden geeted him with a gloomy nod. Bob noticed at a glance that their eyes were swollen and inflamed. He knew at once that they too had been blinded in the fight on the rim. Norton gave him a sullen look. His teeth were chattering. Yet the Subterranea had the temperature of Paradise. Bob managed a grin at him.

"Scared, Nort?" he asked quietly. "Never mind that!" Norton snapped back like a cur

at bay. "What became of Patti? Being in command. you're responsible !" Bob felt Dr. Marsden's eyes upon him. He looked

squarely into them and saw no sign of reproach there. Grief lurked there; bitter grief and hopelessness. "Do you know where she is, Bob?" he asked, in a

trembling voice. Bob shook his head in despair.

"I hate to say it, Doctor," be gritted, "but I was told that three skeletons were left lying on the rim." Dr. Marsden looked startled and ran a palsied hand

over his inflamed, swollen eves, "You-you mean," he muttered strangely, "that one of them might be Patti?"

Before Bob could reply, the Subterraneans began herding them toward the taas extractors, which were working silently at the radium-salted walls of the erater. The débris of the earth-slide had been cleared away by laboring skeletons. One great machine that had been buried under the avalanche, lay to one side, a mass of twisted wreckage. Another extractor had been brought

up to take its place. As they went forward, Bob looked longingly up toward the crater rim. Were Patti's flesb-stripped remains lying up there unburied? Or had she somehow managed to slip away during the fight to a refuge in the brush? Would he ever see her again? Asking himself these unanswered questions he entered the slavery to which they had been condemned, with a heavy heart, resolved to scale the crater at the first opportunity, regardless of the cost, to search for a clue to her fate.

CHAPTER VI

HERE was no hesitation on the part of the Subterraneans to put their new captives to work. But Bob considered himself fortunate in having Larkin for a sort of a straw boss. Their captors had ordered him to oversee the new arrivals and to acquaint them with their duties. The engineer himself was elated, for it gave him a chance to learn the news of the outside. Considerately, he placed each member of the Scienta's

personnel and crew at working points where an occasional exchange of thoughts was not impossible. This brought Dr. Marsden, Norton and Bob in close contact with each other. Larkin hovered near at hand as he schooled them in the work of attending their allotted units of machinery.

The taas extractors were unlike any mining machinery they had ever seen on the earth's surface. Though Bob displayed only a casual interest in them, Dr. Marsden availed himself of every opportunity to study them closely. By doing so, be kept his grief-filled mind from brooding over the unknown fate of his daughter. Being mechanically-minded as he was, it did not take him lone to understand some of their intricate principles,

The machines were like enormous printing presses, so large in fact, that they dwarfed the perspiring laborers, who swarmed around them, carrying away the tailings of the mining operations. Each machine possessed a large cylindrical attachment fixed firmly to one end. This was of a mysterious transparent metal and tuto it was drawn by some attraction unknown to the doctor. the ores from which the radium was obtained.

By a process unknown to anyone but the Subterranean scientists themselves, the ore was disintegrated into particles the instant it was attracted into the cylinders. From there the particles, whirling and spinning, were drawn deeper into the machines where the separation process began, removing the radium from the disintegrated ore and placing it in small, cylindrical tubes of transparent metal, which were gathered from finishing racks and given into the hands of the ever-present Subterranean guards.

From the rear of the machines, the worthless tailings of the processes were vented in dust form. It came out of the vents in such quantities that scores of skeletonized slaves were kept constantly busy carrying it out of the way of each machine. Steady streams of skeletons, moving back and forth, carried the worthless débris to a waste-dump, where frequently a Subterranean guard caused the increasing pile to completely vanish by a discharge of radium gas from a cannon-like gun placed near at hand for that purpose.

But Bob Allen had little stomach for his job, which was that of looking after the finishing rack of the machine Larkin had turned over to them for attendance. Dr. Marsden was intensely interested in his easy task of keeping the machine's extracting cylinder close to the wall. This he did by merely turning a valve that moved the entire machine forward inch by inch.

Norton belped Bob at the rack while the crew, including Bullard and Sparks, labored on the tailings. It was Norton's duty to carry the radium-filled tubes to the waiting Subterraneans. He went about his work

Larkin?"

like a man in a trance, frequently burning his hands in contact with stray particles of radium, whose powerful radiations instantly attacked the tissues, causing blisters. The sting and burn was torture, yet there was no escape. The Subterraneans were taking no chances. Always

they kept the workers under close surveillance. "It's damned strange they don't mine their own lousy radium!" snapped Bob to Larkin whose skeleton stood

by, watching.

"Why should they?" the ex-engineer rejoined quietly. "They've got us to do it for them. Besides, this menial work is far below their artistic temperaments. They're at work in the tunnels, where they wouldn't trust us. We might manage to complete a shaft leading to the surface and give warning to our friends. That would put a big crimp in their plans of attack. So they keep

us here, old man, "What are you kicking about, Allen?" said Norton, glaring at his blistered hands. "You've got the softest

job of the lot!" "It's not the work," Bob's taut voice contained more than a hint of further rebellion, "it's the principle.

Slavery, so far as I'm concerned, passed out with old Abe Lincoln and I'm not going to stand for it now I" "Well, what are you going to do about it?" Norton shrugged.

"There's nothing we can do now," said Larkin in

warning. "Our chance may come later." "I don't intend to wait, Larkin!" Bob hissed from between clenched teeth. "You've been here fourteen vears! You'll be bere forever if you keep on waiting for a chance to break away! Ever think of making that

chance yourself?" "What good would it do?" said Larkin gloomily. "They'd wipe us out in one sweep of a ray gun!"

"Better to die fighting like a man than to be toyed with like a rat in the paws of a cat!" growled Bob The rack automatically filled with finished tubes.

Throughout the entire process of mining the precious radium, the machines operated soundlessly. Norton reluctantly grasped a new burden and went away, cursing softly. Bob urged Larkin closer to him.

"I'm going to sneak up on the rim, Larkin!" he whispered decisively into the other's invisible ear. "I can't go on until I find out about Patti! If they've

killed her, I'll-"Be yourself, skipper!" warned Larkin softly. "I'm afraid you'll regret any impulsive moves. But if you're dead set on going up, I'll help all I can. There's a-" he paused and glanced around cautiously. "Get busy!" he added harshly. And then under his voice: "Here

comes a guard! Must have caught our talk!" With that he turned away toward an approaching Subterranean, nodded as he passed the grotesque creature, and strode stiffly around to the other side of the machine as if to check up on the work of Dr. Marsden. The Subterranean approached Bob, stood just behind him for a short time contemplating him rigidly, then went away. Bob breathed a sigh of relief. Curiously he watched the guard vanish around the machine, wondering if he had, by mental process, intercepted his words with Larkin. But after a moment he shrugged his shoulders resignedly, and watched the radium tubes as the machine shunted them into the rack.

Larkin did not return for some time. Meanwhile the

Subterranean guard appeared again and stood contemplating bim silently as if desiring to say something and thinking better of it remained stoical. Again Bob watched him amble away. Puzzled at the creature's peculiar actions he looked for Larkin. Unable to distinguish him from any one of the other animated skeletons he finally called out his name. Larkin came toward him with swift strides.

"What's the guard watching me so closely for, Larkin?" be inquired when the engineer came np. "Been back here twice. Do you think he suspects my

intentions of going up to the rim?" "Dunno, skipper," said Larkin. "They can intercept thoughts a long way off. Maybe he's wise. Better give

up going to the rim for the present. If they suspect your plans, you'll be watched even closer!" "You were going to tell me something when the guard interrupted," hissed Bob curiously, "What was it,

ARKIN glanced about furtively, then leaned for-

"There's a way of getting up to that rim, buddy," he whispered, "if you want to risk the chance."

"I'll take it!" Bob ejaculated in a low tone. "What is it?"

"Remember I told you I had a taas gun ditched away?" Larkin asked quietly. Bob nodded. "Well," the engineer added, "there's a taas flight outfit that fits on the shoulders, keeping it company. Scoops Larkin hasn't been sleeping all these years, buddy. You can

fly up there in a jiffy if you're not seen!" "That's great, Larkin1" enthused Bob excitedly.

"Where is it? When can I get it?" "When we knock off work," whispered Larkin. "They're hidden in our sleeping quarters-in a hole I

dug for them." "Then, by beaven, I'll do it!" gritted Bob, eyes flashing with determination. "When do we knock off

work?" "When the guard gives the signal," said Larkin. "Then we'll be relieved while another shift goes to work,™

"Another shift?" Bob was amazed. "What ship are they from?" "No ship," replied Larkin. "They're Indians-

Mayans, whom the Subterraneans found living near the "Then this place is the lost continent of Atlantis?"

asked Bob. "Part of it." said the engineer. "A few Mayans escaped death when the continent sank, but were trapped in this big earth-bubble. They multiplied, but the Subterraneans have just about finished them off with hard work. Those left are slaves like ourselves. We'll be

relieved soon." "Dr. Marsden will be tickled to know that he's at last found Atlantis!" said Bob. "The poor devill I'll have

to tell him. It'll help keep his mind off Patti." Larlein turned away, but Bob grasped him by the arm. "Don't forget, Larkin," he said quietly. "I'm going

up on the rim with that flying outfit !" The engineer nodded assuringly.

"They're yours, skipper!" he said obligingly, "But I'll feel pretty danged guilty if you fail to make the grade with the gadgets!"

"Don't you worry shout me." Bob advised him. "I'll give a good account of myself no matter what happens," He turned to the rack. It was pretty well filled to capacity with finished tubes. He looked about for Nor-

ton to convey them to the Subterraneans. The erstwhile skipper of Scienta was nowhere to be seen. Mystified at his disappearance, he grasped a number of the tubes and carried them himself to the waiting guard. The Subterranean accepted them with stoic informality. Bob looked about hurriedly for Norton and saw him off toward the corridors, surrounded by four guards who were marching him away to some unknown fate.

"Now what the devil did he do?" he asked himself silently. Though he despised the man, he felt an urge to fol-

low after him to learn what was up. He looked about for Larkin, The engineer seemed also to have disappeared, else he was mingling with his mates, indistinguishable from them by reason of his transparency. Dr. Marsden beckoned to him from the machine. He went to him quickly.

"What happened to Norton, Lieutenant?" the scientist inquired. His voice was husky, like that of a very old man. To Bob his hair seemed to have grown shades whiter since his capture. His eyes, still inflamed, bore

a look of fear. His hands trembled and his shoulders seemed more stooped. "I don't know, Doctor," said Bob. "He must have done something the guards did not like and they marched

him off" "I saw him talking with a guard a moment ago," said

the doctor, "then three others came up and surrounded him." "Well, he'll have to take care of himself," Bob

shruggged. "We've got enough to worry about without adding his troubles to our own." He was on the verge of confiding in Dr. Marsden his plans for visiting the rim in search of clues about Patti. when Larkin came up again. His bony hands were clenched. Had Bob been able to see his eyes, he would

have observed that they blazed with murder, "Now I know why the guard was watching you, skip-

per !" he hissed. Bob looked blankly into his grisly face, then glanced at the nearest Subterranean. The creature's back was turned. He was intently watching a line of skeletons

plodding laboriously toward the dumps, weighted down with their heavy loads. "What's wrong, Larkin?" Bob inquired, sensing from the other's harsh tones that something was in the air.

"The beggar was going to 'proposition' you," hissed the engineer, "but must have decided to try Norton first !"

"What do you mean?" Bob inquired. "Just this, Allen!" said Larkin. "For a long time the

Subterraneans have tried to get one of us to join their ranks and supply them with certain information about the Surface. We've all refused, of course. But not Mister Norton! The rat! He's thrown in with them, bag and baggage!" "I don't believe it, Larkin!" snapped Bob, incredulously. "He isn't such a hell-bender of a he-man, but

he couldn't be low and yellow enough to do that! How do you know he did?" "Listen, bozo," said Larkin. "In the fourteen years I've been here, I've learned a lot about the Subterra-

neans. For one thing, I can intercept thought-waves at a respectable distance. I got the vibrations of the guard, when he offered Norton immunity from further persecution if he joined with them. I heard Norton consent! The yellow rat! He's run out on us-turned traitor!"

Bob frowned thoughtfully, then shook his head ineredulously. Treacherous though he knew Norton to be, he could not believe the man was so low in character. But the world had known traitors before. Why not Norton? he asked himself. It was hard to believe,

Larkin might be mistaken. 'Maybe he's got a good reason for throwing in with them, Larkin," he said in Norton's defense. "He might

have seen a chance to outsmart them. You never can tell about a duck like Norton."

Larkin clicked his jaws together with a snap, "If I don't miss my guess, skipper," he said confi-

dently, "he threw us over just to save his vellow hide, He was too damned eager to accept the proposition, He didn't even take time to think it over. He jumped at the chance and took it on the spot!"

The guard turned around suddenly, saw them idle and strode menacingly toward them. Larkin urged Bob toward the taas machine, then called Sparks forward to take Norton's place at the rack. Sparks came up, perspiring and panting from the hard labor he had been performing. Bob greeted him with a sullen nod. Then the guard gave a signal in the form of a high-sounding whistle that came from his crow-like jaws. It was the only sound Bob had heard a Subterranean make. But it was enough to inform him that his day's work was done.

"We're knocking off now, fellers!" Larkin called to the Scienta's crew. "Stand by for the relief!" Bob and Sparks stood at their posts. From the corri-

dors poured a long stream of animated skeletons, plodding forward like so many ghosts. Squads of Subterraneans herded them into the crater where they split into groups and marched to the machines. The skeletons of the relief were a head shorter than

those who were just going off duty. But Boh did not speculate on this. His mind was deeply immersed in other things of more importance than the difference of height between the Mayans and their white brothers in misfortune

He watched them advance toward his tass machine, They came like so many ghostly automatons, as though they had been broken in body and soul. Some of them were horribly bent over. Some dragged their feet behind them as if are and toil had taken their last vestige of strength. These unfortunates were kicked and prodded forward by the guards. They took their places at the machines and dumps. Then the crater resounded with the orders of the various straw bosses, including Larkin, who called the Scienta's castaways together.

In military fashion he led them to the center of the erater where the others joined in the procession. With the Subterranean guards of the day following up the rear and flanking both sides of the column, they were marched into a corridor and then into a long barrackroom. The floor was bare except for a great number of transparent metal platters scattered hither and you in disorder.

B UT once dismissed, the hungry slaves scrambled for a platter. The new arrivals looked on bitterly,

Dr. Marsden shook his head sadly. Bob cursed under his breath until Larkin nudged him.

"Grab yourself a plate, skipper!" he said. "If you don't like the chow they dish out, give it to me. I'm

starving!

Dumbly Bob reached down and picked up a platter. The others did likewise. Larkin invited him to sit down on the floor beside him, in a corner. His blood pounding rebelliously through his veins in bitter opposition to the base, inconsiderate attitude of his masters, Bob sat down. The barracks had finally brought him to realize that, like the others, he was just a common slave. Looking around bim he wondered if the others could ever be reclaimed again.

As if reading what transpired in his mind, Larkin nudged him as Dr. Marsden sat down.

"Forget it, skipper!" he said. "You'll go bughouse if you let your mind play too hard on your predicament.

It could be worse, you know." "I suppose so," said Bob gloomily, "but not much!" The skeletons, sprawled here and there waiting for a delivery of chow, watched the Scienta's castaways con-

stantly, as though feasting their eyes. Bob heard them muttering and mumbling.

"God, it's great to see a man in the flesh again!" one of them said with unsuppressed emotion. "I'd almost forgotten what a man looked like! And a woman-if

I could only see one! God!"

The new arrivals kept together, aloof from the others, as if the older group was composed of things of unspeakable horror. Nor did the skeletons seem to resent the alcofness, though by their actions Bob could guess that they erayed new companions, friends whose flesh they could look upon. But through it all they frequently laughed, though it was a hard, brittle laugh, and the bantering humor between them was raw, bitter.

"A woman, buddy?" groaned another bitterly. "I'd be glad to see even a female's skirt! I had a girl once in New York-" his hard voice fell to a rasping halfwhisper. Then he added with all the bitterness of his soul: "But that was long, long ago!"

As if his words had stirred up vivid memories, the others became silent. Bob could hear them breathing heavily. Then suddenly, breaking the oppressive stillness, a skeleton began a raucous tune.

> "Oh, he had a girl once-'Way up New York way, "Long, long ago! Long, long ago!"

Immediately the rest chimed in and for a moment the barracks rang with their broken, poignant voices. From the doorway leading to the corridors and vistas, the guards watched in stoic silence. They gave way suddenly and a half-dozen skeletons entered the big room carrying large kettles of transparent metal in which sloshed soupy liquids and other appetizing-looking

"Shut up, you guys!" Larkin yelled at the others. "Here comes chow! I'm so hungry I could eat the leg of a table !"

"Haw! Haw! Haw!" mocked a skeleton nearby. "He could eat the leg of a table, fellers!" His voice was filled with bitterness.

"Yeah, so could I!" bellowed another. "If-if there was a table!"

self cursing the man with unwholesome venom.

As the kettles came around they held up their plates unwashed, nobody seemed to know for how long. The galley erew dished out the grub with ladles. The skele tons getting theirs, began eating with their fingera in silence. Bob looked at his platter. Bits of hard, dried food

clung to it. Blue dust stained it. He wiped it off on the cuff of his trousers and waited, sick at heart, for the galley-monkey to reach him. Larkin held out his platter. The skeleton ladled him a generous portion of grub. It bore an evil smell that destroyed Bob's appetite at once. But he held up his plate. The stuff that was placed on it was thick and lumpy, like stew. But it had the odor of salt fish. With his fingers he fished out a lump and held it to

his lips. His nostrils revolted against it, but he took a small bite. His stomach revolted. With a curse he set the platter down in front of Larkin.

"The rotten slumgullion of a prison ship!" he barked

"I can't eat it!" The galley monkey, dishing out the stuff to Dr. Marsden, paused and glared at him.

"You'll eat it, matey," he rasped, "rather than starve!" Bob ignored him

"It's pretty rotten, skipper," said Larkin, smacking

his lips as if he enjoyed it, "but you get kind of used to it. It's all we get here. It's a kind of a fish soup. Better fill up. "You got something to do that can't be done on an

empty stomach." "I can't eat swill, Larkin!" he breathed. "I don't want it?"

"You're the boss of your own belly, old man!" Larkin nodded. "I'll eat it if you don't!"

"With my compliments!" Bob grunted. His stomach was his own business, but his heart was

up yonder on the crater rim where not long before, Patti Marsden had lain beside him, her warm hand clutching at his while the Subterranean flyers hovered overhead. Thoughts of that delicious moment in the pilot house of the Scienta when she had unhesitatingly expressed her love for him, was like medicine to his blood. They quickened his heart, made it thud against his ribs. But the grim realization that she was gone, God only knew where, smote him suddenly like a heavy blow.

For a long time he sat brooding, while the others cleaned their platters. His face was a living mask, hard, tight-drawn. In closed fists his nails bit into the palms of his hands until they hurt. When thinking of Patti, he could not help but think of Norton. His mind turned suddenly upon the ex-captain of the yacht. He recalled the intimacy between himself and Patti before that

eventful day in the pilot house.

He wondered if the unceremonious iilting Patti had given him had been the direct cause of Norton selling out to the Subterraneans. Or had the man taken stock of himself and become a magnanimous enemy? Had he grasped at the Subterraneans' proposition, hoping for a chance to learn of her fate, to help his fellow men in their desperate hours of distress? Or had he other

reasons? Other reasons? The thought plagued Bob Allen.

It was like an all-consuming flame and he found him-

HEIR meals consumed and platters laid aside, the skeletons began mumbling ominously among themselves as they reclined on the hard floor of the filthlittered barrack-room. The arrival of the newcomers,

talk of home and of sweethearts, had stirred up within them smouldering, half-forgotten memories, Fourteen years of loathsome confinement in a world so near and yet so far removed from their own had

dulled their wits. Constant watching, unspeakable cruelties and persecution, exercised upon them by their Inner World captors, had held them subdued, almost broken in body and spirit. They were like human robots, longshorn of their wills, suddenly finding that shreds of their old powers still remained in them and had taken root. The sight of men as yet unaffected by the mysterious

forces of the radium, whose flesh they could see, had awakened them to the bitter realization of their own dire straits and conditions. Why, they told themselves, they were no more than living ghosts! Home, women? Wives, mothers, children and sweethearts? There were such things after all, weren't there? Sunshine, stars, moonlight nights! None of these things existed in this hell-hole, this world of skeletons, labor, horror and that maddening blue glow! But, they inquired of themselves time and again, what could they do about it?

Had Bob Allen, however, not been so preoccupied with his own dire thoughts he would have marked the progression of discontent to almost open rebellion in the others. Sitting beside Larkin, with his back against the wall, thinking of Patti and racking his brains for a way out of the situation, eyes closed as if to shut out the grisly horror of his surroundings, he had failed to observe the fermentation of discontent and mutiny among the skeletons. But Larkin had been listening to their grumblings, watching, dividing his attentions between them and the four guards who loafed listlessly at the doorway. They seemed unconcerned at the growing discontent, but Larkin knew a few things about the Subterraneans. He knew that with so many voices speaking at once, so many thoughts being broadcast simultaneously, the warriors could intercept nothing more with all their powers of mental telepathy than a meaningless jargon.

Time had passed swiftly. Ordinarily the skeletons would have been asleep by now. For a long while Bob sat there in silence, lost in thought, deaf to the sounds about him. Dr. Marsden, through sheer exhaustion and worry, had fallen asleep and lay sprawled beside him on

the floor, a pitiful spectacle. Here was an old man, of breeding and culture, accustomed all bis life to the finer things, lying asleep in filth, a common slave, no better off than a hog in a sty. Larkin shook his head a bit sadly as he looked at him, then at his exhausted men sprawled out around him. He wondered how long the scientist would live under the

domination of the Subterraneans Glancing again at the guards, he nudged Bob. Rudely shaken out of his thinking and brooding by the engineer's sharp elbow, he leaped up, mentally alert, poised at his full height as if danger had put him on his guard. "You got the jumps, skipper!" Larkin hissed softly.

"Get hold of yourself, man! Sensing something in the oppressive air, he looked

down at him anxiously.

"What's wrong, Larkin?" he queried rigidly. "Sit down, skipper," Larkin urged,

Tensely and reluctantly Bob sat down again, glancing apprehensively at the sleeping form of Dr. Marsden, The scientist's face under the blue glow seemed set in a mask of death. For an instant Bob had disconcerting visions of a dead man. Then he saw the other's chest rise and fall with his heavy breathing. He gave a sigh of relief.

"Looks like the boys are looking for trouble, Allen," Larkin continued, whispering, "Your coming seems to have aroused them to fighting edge. I've been listening to their palaver. They're dynamite and all they need is a spark to set 'em off!"

"Have they got a chance?" asked Bob, listening intently to the grumbling. Larkin shrugged.

"Not a chance!" he gritted anxiously. "What makes you so certain of that?" asked Bob,

watching the aroused skeletons. Some of them were pacing restlessly back and forth across the floor, frequently haranguing the others. But their voices were drowned almost out by the droning hum of their grumblings.

"Because there's no way out of here," said Larkin in a tense tone. "We searched for a passage to the surface from the lake for two weeks before we were captured. If they made a break, their only retreat would be toward the lake, for the Subterraneans would come up from the tunnels. We'd be cornered like rats up

above." Bob remained silent. Almost exhausted as he was from lack of rest and nourishment, he was sleepless. Larkin watched him curiously.

"How do you figure to get past the guards on your way up to the rim, Lieutenant?" he asked at length.

Bob's eyes hardened. "I think I can do it with your help," he said softly. "I've been thinking over a plan. But where's the flying

machine you said you had ditched?" "Right under me!" returned Larkin, glancing furtively at the guards.

One of them was gazing stolidly at Bob through unblinking eyes. Larkin's heart stood still as he wondered if the warrior had intercepted their thoughts by concentrating on them alone. He glared back coldly. Finally the guard turned his head and resumed his listless posture at the doorway. The engineer continued in a whisper:

"It's buried right under me," he said. "What's your plan of action?"

"Just this," hissed Bob without hesitation, and then he launched quickly into the details of his plan. Larkin listened intently, nodding his grisly skull in approval, as Bob unfolded his scheme to attract the guards away from the door to allow him a chance to slip into the corridor, "Now," he concluded quietly, "dig out your hidden flight gadget and taas-tube. If I make the rim safely and fail to find Patti's remains there, I may return to the yacht to search there for her.

Larkin grunted softly, glanced toward the guards to find them loafing carelessly at the door and then hunched himself aside. Silently he began scooping soft earth away from the spot on which he had been sitting. Bob watched the warriors tensely. After a moment he felt something shoved against his hip. He glanced downward. Beside him, bidden from the view of the guards. lay one of the small Subterranean shoulder flyers. He gave Larkin a blank look. "I don't know how to work the thing" he hissed. "It's easy!" whispered Larkin. "Here!"

He pointed to a row of small buttons arranged on a metal strap that extended from the device. Bob had already observed on studying the flying warriors how the strap fitted. It was to fit across the left shoulder, down across the chest and under the right arm where it hooked firmly to the machine. Another strap ran from the right shoulder in the same fashion. The fiver fitted to the shoulders somewhat like a knapsack.

"These buttons control the thing, Allen," Larkin continued in whispers. "By pressing the topmost one, the one nearest to your throat, you start the propellers whirling. In rising you press the buttons from the top on down according to the speed you want. When descending you merely press them from the bottom up. This reverses the screw and lets you down slow and easy like. Now here's the taas tube, should you need

it old man-

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He glanced anxiously at the guards. Leaning as they were against the thick walls at the door, they seemed

dozing. He continued:

"This tube also has control buttons on it," he said. "Number one, that closest to the business end, projects the brillia-ray. Number two shoots the hideo-beam and here-this one will strip a man clean of his flesh? Each button releases a more powerful beam than the one ahead of it. When you want to shoot a man off the earth entirely, you press the last button. There won't be even a fragment left of the target if you hit it with the ray this button releases! So there you are, Skipper, The rest is up to you. All I can do is to start a fight and attract the guards from the door. The rest is up to you. Good luck, old man l"

WITH that Larkin rose to his feet, hunched his shoulders forward and stalked toward the far end of the long room. Bob grasped the flight motor and taas tube tensely, careful not to let his palm or fingers press down any of the control buttons on either. He saw the engineer halt abruptly in the center of the room. Larkin glared at his comrades for a few seconds and then Bob heard his voice rising above the buzz of conversation. He called for silence and got it with difficulty.

"Listen, yon guys?" he roared. "You talk like a bunch of half-wits! You'll be wiped out if you try a break! You ought to know you ain't got a chance. The time's not ready yet. Now don't start anything. Somethine's gonna break for us soon and I'm warning you to wait. Hear that? Woit! Don't do anythina! Just watch and wait! What I'm going to do now is for a reason. Get that? A good reason! I want Iimson. Craig and Barlow to step forward! Lively now!"

Bob saw three skeletons detach themselves from a group that lay close together at the far corner of the barracks. Scarcely had they started forward than Larkin hurled himself at them, snarling fiercely. They seemed taken aback by surprise. Larkin's right arm shot forward. Bob heard the sharp smack of flesh striking flesh. One of the skeletons toppled over backward. "Fight, you guys!" Larkin snarled at them. "Fight!

It's for a reason! Come on!"

The two skeletons, sensing something of vital import-

ance in the air, came toward Larkin eagerly now. Snarling and yelling curses, they went at it like hell-possessed demons. Instantly the four guards, seeing the commotion, rushed into the barracks, holding their taas tubes up like black-lacks.

Without waiting to see the results of the forced fight, Bob leaped to his feet, stepped over Dr. Marsden's silent form and slipped into the corridor, carrying his tass motor and tube. Nor did he pause near the door of the harracks. Instead he continued on until he encountered an abrupt turn in the tunnel. Here he paused and as if he had planned his movements to the second, he quickly slipped the motor straps over his shoulders and snapped the device into place on his back. It was so light in weight that he wondered suddenly if it had the power to cary him aloft when he would reach the open CTRICT

With his beart thudding against his ribs, he pressed the first button as Larkin had directed him. Instantly the small propellers began to spin. He felt them vibrating, giving him a neculiar feeling of huovancy, lifting him to his toes. To test the device for his own satisfac-

tion and safety, he gave a slight bound upward. Instead of going up only a few inches, the machine lifted him almost to the roof of the glowing tunnel, letting him down again lightly. He was jubilant, know-

ing that with the additional power sent into it by the pressing of the remaining buttons, the machine would transport him into the air with perfect ease and rapidity. It made no sound beyond a low, almost inaudible hum of the rades motors incased within it. Tensely gripping his tass tube, thumb placed lightly

over the button that would release the weapon's most deadly ray, he went cautiously forward. As he went, he felt the machine grow warm against the bare flesh on his shoulder-blades. But he paid no attention to such trivials now. He was on his way at last to the crater's rim to learn what be might about Patti Marsden With utmost eaution he proceeded along the corri-

dor. The tunnel was a large one and went weaving snake-like toward the abyss. Others branched off occassionally and as be hugged the walls be passed a great room in which lolled a number of silent Subterraneans His heart stood still when he encountered the door and

it was a good minute before he continued on past it. Otherwise, the corridors seemed deserted. He heard no sound from the barracks he had left in a turmoil. But he craved darkness to hide him from the view of any alert Subterranean. There was only the blue glow that illuminated the underground world constantly. He pro-

ceeded carefully, tensely, in full view of any Inner World creature he might encounter. But he was not afraid. All fear had long since left

him. His eyes blazed with the determination to get to the crater edge at any cost. Three human skeletons lay up there. One of them might have held the flesh of Patti. He hoped to find the truth, perhaps in scattered fragments of clothing, perhaps by a more gruesome means-that of comparing the skeletons with one another and judging by the sizes. As a last resort he had resolved to count the ribs. Then if Patti had been killed by the murderous Subterraneans, well, he might settle a double score, before they assassinated him.

Silence beat down upon him like the roar of a Niasara as he continued onward. He was like a lion stalking a kill, his taas tube held in readiness, every nerve taut to the strain of his uncertainty. Suddenly he encountered another door. He paused to listen, but heard nothing coming from the room to which it led. Cautiously he went on.

At the door he paused and peeped in. A Subterranean was working on a tass ship just inside. Breathleasly he hugged the wall. Then, after a tense moment, he peeped in again. The creature had moved away from the machine and was standing with his back toward the door.

Quietly he went past, every muscle in his body tingling. Times and again he glanced over his shoulder to see if the Subterranean had detected his presence. Seeing nothing behind him but the corridor twisting away, he breathed a sigh of relief. Then before he realized it he found himself facing the open of the crater.

More alert than ever he hugged the corridor wall and pered into the open. Hundreds of sledetons toiled around the tans extractors. Unending lines trudged back and forth from the dumps to their respective machines. Subterranean guards watched over them. In the center of the crater stood a group of the grotesque creatures, as if engaged in some silent conversation.

Bob searched his immediate vicinity for a hovering guard. Fortunately for him none were nearer than the center of the abyus. He wondered if he could make a rapid accent to the creater's from without being observed. His hands trendhed a trifle now. But he steeds himself to the inevitable. Make it or oot, he was going to tyr. His blood raced hoe, like pearing metal through his veins. He betalest hard, keeping his tass then in direct like the resulted hard, keeping his tass then in direct like can called to thaving been seen, he edged his way to the mental of the control of the control of the control of the mental of the control of the control of the control of the mental of the control of the control of the control of the called of having been seen, he edged his way to the mental of the control of the control of the control of the called of having been seen, he edged his way to the

For an instant he paused there, determinedly. With his free hand he pressed the second, third and fourth buttons on his chest strap. Instantly the propellers on bis back gained velocity. He was jerked violently off his feet and into the air, rising within a foot or two of the rugged side of the abyss.

Higher into the air—like a rocket, he soared. Eyes glued on the guards below; tasa tube held ready, he watched the skeletons and their guards diminish in size as he rose. Then he saw the group suddenly disband and amble away in different directions. He wondered if he had been seen. He noticed one guard moving across the crater bottom at a swift pace. Then he realized that he was coince becomed the rim.

IT dawned upon him suddenly that he had forgotten to asit Larkin how to operate the shoulder device for forward flight. He swore grimly as he overshot the rim and continued upward. For a moment he had visions of bashing his skull against the roof of the great early bubble into which the Scientia had been drawn. Desperately he pushed the buttons to allow his flight upward. The propollers skowed magdally. Yet he continued to

Then he recalled that he had seen the flying Subternanas lick their feet in descending from their hovering tass ships. Hopefully he kicked his own, throwing himself off balance in the air. Jubliantly he felt himself being carried forward by the reaction. He realized sadeuly that the feet played an important part in the flying of the machine, acting like the tail of a bird in flight. Swinging his feet upward he was carried forward.

But, mused to such motion, his legs grew suddenly tired. But not before he had been carried from above the open abyss. He looked down. The crater rim was directly below. Silently praying that he had not been seen, he present the buttons again. The vibration of the propellers decreased. Slowly he descended until his feet finally touched the pround.

He slaured over on his side and by will, breathing hard. Realization that he had outwrited the ever alert Subterraneaus, a feat Larkin had said was absolutely impossible, made him suddenly weak. Sweat streamed from his forehead and strung his eyes like fire. He ran a trenshing hand over them and looked toward the opposite side of the cruster. Far below he saw the laboration of the same of the same of the same side of the cruster. Far below he saw the laboration of the same side of the cruster. Far below he saw the laboration of the same side of the cruster. Far below he saw the laboration of the same side of the cruster. Far below he saw the laboration of the same side of the cruster. Far below he saw the laboration of the same side of the cruster of the same side of the same s

Lating place there. The model of the state o

But he must get to the skeletons now or never. If he ever hoped to learn of Patif's fate, the opportunity could not be overlooked or passed by. Yet, unaccustomed as he was to the handling of the Subterranean fight machine, he dreaded the ordeal of going into the air again.

would be fatal.

But what he saw lying on the ground under him caused him to sober quickly. In various attitudes, three human skeletons, bones gleaming white against the ground, glared up at him. Keeping well out of sight, away from the crater's edge, he alighted near the trail and advanced toward them on foot.

He cancel softly viciously, at the manterous Subtracases who had stripped three bones of their fields, manners who had stripped three bones of their fields, such be best down over a shelden. It was smaller than the others, much smaller. The javan long open as if doubt had cross in unspeakable spany. He cucked the dark had cross in unspeakable spany. He cucked the shell. It was soft and allow, but shortcropped. Yet saids. It was soft and allow, but shortcropped. Yet shell, the shell could be a shell be a shell be a shell belief, shipped close in the black. He cutched it with a shaking hand and looked again at the party text, a shell belief to the shell be the shell belief to the conclusion.

ng youth.

It. His wandering eyes alighted on the ghastly hands.

d. The bones, held together by hardened sinews, were

clutched tightly. Mortis rigor had set in, it seemed, on the instant of death. But something bright attracted his

gaze. It was a wide-banded gold ring encircling a middle finger. It hung loosely around the digit. With a grunt, the tone of which bore something akin to joy, he lifted the boney hand, pried the fingers open

and slipped off the ring. Instantly be recognized it. It was the ring Dr. Marsden had bought for the cabin boy in Rio! Why hadn't he thought of the cabin boy before? He

had completely forgotten the presence of the youth on the Sciental So the skeleton was not Patti's after all! It was that of young Stebbins, a boy scout, first class, whom Dr. Marsden had taken along on his expedition to Brazil! The boy had beyond to on along. Dr. Marsden had vielded. But to what a chastly end l

Boh Allen at that moment was both happy and sad. He was happy that the bones were not all that remained of Patti Marsden. And he was sad because of the unkindly twist of fate, that had snuffed out the life of the boy who was not more than seventeen, if that old. He knew at a glance that the other two skeletons were those of big men. They were too large for Patti's delicate frame

He fondled the ring curiously. It was the same heavy, green-gold ring Dr. Marsden had bought for the boy at Rio de Ianiero. He recalled the purchase clearly, With Dr. Marsden and Stebbins, he had gone the round of the Rio curio stores. The how had seen the ring and had wished for money enough to buy it. It had been rather a big ring for so small a boy, yet Stebbins had wanted it badly. He had been struck by the weird design of the Chinese jade stone. And so Dr. Marsden had purchased it as a present for the youth in return for excellent services rendered aboard the vacht.

But why hadn't the Subterranean ray destroyed it? Or was the strip-ray powerful enough to melt soft gold? The jade stone was gone, melted to black crisp. He could see that. Certainly the jade was harder than

vold. Yet the metal was as beautiful as the day it had

come out of the shoo! Struck with a strange idea, Bob Allen stared at the ring. Was the gold, he asked himself, immune to the powerful radium rays? Or had the ring, by a twist of fate, merely escaped the same destruction as the youth's flesh? No l he told himself. In that event, the jade would also have escaped. There could be no other explanation for the ring. Gold was immune to the stripray! But was it immune to the most powerful of Subterranean rays-that which disintegrated human hodies and ore-dust, causing them to vanish in a puff? He wondered.

Suddenly he decided to test out his idea. If he destroved the ring in the experiment, nothing was lost. If the ray failed to destroy it, did not cause it to vanish -then he had made a discovery of vital importance to

his fellow-men on the Surface.

Trembling with excitement and eagerness, he crept far back from the abyss, halting at the mouth of the overgrown trail. Here he laid the ring on a flat, thick rock. Tensely he aimed his taas tube at the golden band. With a lightning-like touch of his thumb on the buttoo, he released what Larkin had said was the Inner World's most deadly ray.

There was a hissing sputter as the blue flash stabbed out from the tube. The weapon recoiled slightly in his hand. But the flash was instantaneous, vanishing as quickly as it had been discharged. He had only meant to touch the cold hand lightly with the beam realizing

that a prolonged ray might forever bury it in the earth. He saw a small cloud of almost invisible blue dust rise up from the suddenly vanished rock. Easerly he laid the tube aside and looked for the remains of the ring. It had vanished. He gave a grunt of dismay, but ran his

hands through the dust that remained

In a moment his fingers touched the ring. Jubilantly he hrushed it off. It seemed to have been untouched by the ray. Under a thin coating of blue dust, the gold elittered as brilliantly as ever. He clutched the relic of death-and life, fondly, beaming with the hanny realization that gold and perhaps gold alone was immune to the terrible tass rays of the Subterraneans! He could have performed a dance of joy at that moment, for he had by chance discovered a means for protecting his people on the Surface from the deadliest of rays produced by the Inner World murderers, the Subterranean assassins!

I IEUTENANT Bob Allen showed no further interest in the three skeletons lying, stripped of their flesh, on the crater's rim. Neither of them had once beld the soft, yielding flesh of Patti Marsden To him now, as he sat near the trail, meditating silently over his chance discovery that gold was immune to the destructive rays of the Inner World, they were just bones. And he had grown more or less hardened to human skeletons since his arrival among the Subterraneans. He did, however, feel the panes of pity and sorrow for his unfortunate companions who had me death on the rim. But they were beyond all earthly help now. Therefore, they must be forgotten in place

of more important thoughts at hand,

Those thoughts were: How could be get a warning to the Surface that the cruel warriors of the Subterranean were at the final bour of their carefully laid plans to strike the death knell to all humanity? How could be warn his people that only gold was immune to the terrible rays of the Inner World? If he could get word through to them the Surface armies and navies might successfully defend themselves behind shields of gold But was there any way of escape from this dreadful world of the living dead? And where was Patti Marsden? What had happened to her? Was she alive or dead? Had she been taken captive or had she somehow managed to escape back to the Sciental Was she like the three skeletons on the rim, beyond his-all

earthly help? He resolved with grim determination to continue his search for her, meanwhile to look for an avenue of escape and to rack his tired brains for a way of sending an urgent warning to the Surface. Wearily he picked up his taas tube and with the aid of the spinning propellers on his back, he arose to his feet. As he did so, he felt a strange sensation of being watched. Something like the prick of a pin at the base of his skull caused him to grow suddenly tense. He knew instantly what it was l He had been discovered by the Subterraneans and they were projecting their thoughts into his brain by means

of their strange powers of mental telepathy. Instinctively he tried to hide his taas tube close to his body, while his eyes searched the terrain before him for a glimpse of his enemies. Suddenly he sensed their presence behind and spun around, crouching. His eyes popped in alarm. Standing close to the thick brush almost at the edge of the abyss, were three protesque, hostile warriors of the Inner World.

The creatures, unobserved, had for some reason ascended to the rim. They stood side by side, glaring menacingly, taas tubs upraised before them, ready to send him to his death. His blood seemed to freeze in his veins. But he kept his head and returned their unblinking stare. He felt that his death was only a matter

of seconds now.

The uncomfortably tickling at the base of his skull continued. He knew that one of the creatures was projecting his powerful thought-waves into his mind, The vibrations grew stronger, impinging on his brain with deadly, menacing force,

"I saw you ascend to the rim. O dog of the Surface!" the Subterranean warrior finally informed him, stamping his thoughts indelibly on his brain. The sting of the vibrations made Bob wince. "You sought to escape from where there is no escape! Death will be your reward!"

"I only sought to learn about a loved one. O brave warrior of the Inner World!" snapped Bob with all the sarcasm be could muster. "I came up merely to see if that loved one was among the skeletons on the rim!" He clutched his taas tube tightly, thumb hovering over the dread buttons. In an instant, he felt, he could ierk the weapon from behind him and in the same mo-

tion send at least one of the warriors to his doom. But his enemies were not to be caught napping. They held their death-tubes in direct line with his torso, ready to release their deadly rays at any instant. Yet he was sure in his mind that he could kill one, maybe two of them, even as they sent him to death.

"You will keep the skeletons company, O dog," the warrior projected ominously. "When we finish with youl Death is the penalty for runaway slaves! You shall die like the others, with the flesh stripped from your bones! But first, O dog of a slave, we shall play with you! We shall make you tell where you obtained the taas fiver!"

Bob Allen, realizing that they meant business, stood his ground like a stone image. The Subterraneans' cobra-like eyes glared at him with unblinking steadiness. They made him feel a bit dizzy as they concentrated their minds on him, like anakes hypnotizing a bird. Certain that they meant to destroy him, he felt reasonably assured that they had not observed that he possessed a taas tube with which be might defend himself. The

warrior had as much as said so! Then he found his voice.

"Supposing I refuse to tell you where I got the fiver?" he hissed through clenched teeth. If he was to die, he had suddenly resolved to die in silence, like a man, and tell them nothing. To tell that Larkin had given him the fiyer would mean that the engineer would be put to death without ceremony. He was not afraid, he told himself. But if he could, he would take his enemies

with him into death. "There is a way of making you tell, O dog!" the warrior vibrated. "It will not be pleasant | It will be an enjoyable revenge to see you die slowly for having killed

one of our brothers to obtain the fiver!" "Kill one of your brothers?" Bob frowned, "I killed

nobody l"

"The Surface creature lies!" the Subterranean hissed. "How else could you obtain a fiver?" "That is for you to learn. O sons of a snake!"

snapped Bob, crouching like a wolf at bay. "I will tell you nothing !

"Then where, Surface dog, would you like us to begip stripping off your flesh?" the warrior waved his tass tube threateningly "At the feet or at the head?" "You're a bunch of dirty murderers!" Bob bissed

He had his thumb on the last button of his tass tube now. Slowly he was bringing the weapon around to his side for a quick aim. Apparently the Subterrapeans had not observed it. Certainly they could not detect its presence by reading his mind, for Bob Allen wisely was thinking of something else. He was thinking only horrible thoughts of ripping out his antagonists' throats with his hared fingers. He continued jeeringly.

"You're a bunch of yellow cowards, afraid to meet a man face to face!" he snarled. "I could kill the three

of you with my bare hands !" "We do not wish to die, O dog!" the warrior pro-

iected. "But supposing we should fight you your way, like a savage beast, with teeth and nails?" "I would tear you limb from body !" snarled Bob, boo-

ing he might taunt them into fighting him his way. Suddenly be thought be detected a movement in the brush behind the murder-bent warriors. His heart skipped a beat as he thought Patti might be hiding there. But no, it couldn't be Patti! Only a sleek animal could penetrate that wall of shrubbery. It moved again. He glanced at the Subterraneans. The creatures were slar-

ing at him, tubes ready to send him to death The brush behind them parted stealthily. At the same instant there came within Bob's vision, the crouching Satan-faced figure of a monster jaguar, eying them with a malevolent stare. The great cat, flattened on his belly, eves gleaming like twin balls of fire, remained motionless except for its twitching tail and snarling lins. It lay not more than a dozen feet behind the menacine

Subterraneans who stood close together, side by side, Bob Allen gulped hard as he stared as if transfixed at the sleaming eyes of the beast. The jaguar began now to creep forward, ears laid back, teeth bared, every muscle taut for a sudden spring. And he knew that particular jaguar, for he had helped Dr. Marsden trap it far up the Amazon I It was no doubt the very same beast that had bounded over the bow of the Scienta as the vacht buried her nose in the sandy beach of the subterranean lake!

He could have recognized that particular jaguar almost anywhere, for it, like its mate which he had killed on the Scienta's deck following its escape from the water-filled hold, was the largest cat of its species ever taken alive. This beast seemed even larger than a fullgrown lion. He watched it in awe, purposely keeping his mind on other things, so that the Subterraneans might not penetrate it and read of their impending danger.

Closer and closer the beast wiggled. Driven to madness by starvation it was now ready to attack anything. It had no fear of the Subterraneans. Flesh was flesh whether it be on the bones of Inner World or Surface

Suddenly the beast charged forward in great, silent bounds. One of the warriors, sensing the presence of

danger, turned his head. Instantly he saw the great cat behind him. But too late to save himself. The jaguar had already left the ground in a mighty, death-dealing leap, legs far outstretched, claws unsheathed, fangs bared in a ferocious, hungry snarl. It bowled over two of the Subterraneans and slashed at the third, ripping

his throat wide open with its claws. Tass tubes were sent flying. One of them landed within Bob's reach. Quickly he picked it up. He aimed both weapons at the jaguar and its tangled victims, but withheld the rays. He saw the great cat close its pow-

erful jaws over a warrior's crow-like face. There followed the dull crunch of splintering bones. Frantically a slasbed Subterranean tried to get his

tass tube into place. But so ferocious, so intent upon the kill was the hunger-maddened beast, that he had no chance. A mighty paw sent him, still clutching his weapon, rolling aside from where he lay, blue blood oozing from his torn throat. Bob thought the beast had killed him with a single blow

He watched the the ugly sight with a sense of relief and a realization that again he had been spared. He felt a sudden warmth in his heart for the jaguar that had appeared so timely to save his life. If he ever owed a debt of gratitude, he told himself, as he watched the beast settle down over two of the warriors to gorge, he certainly owed it to the big jungle cat he had belped Dr. Marsden trap and cage far up the Amazon

Sbaking inwardly from the strain of facing death, he turned away from the jaguar's ghastly kill, knowing that it would not attack him while it gorged. Resolved now to visit the Scients at the lake, hoping that Patti might have gone there, he pressed the buttons controlling his taas fiver, and rose slowly into the air. Without looking back, he guided himself away from the crater, over the tangled brush and up toward the summit of the mountain down which he had climbed with Patti not long before, unsuspecting what might lie at the foot of its perilous trail.

But suddenly a thin beam of blue light stabbed the space not a dozen yards ahead of him. So close had it come, so menacing and powerful was it, that he heard its sputtering hiss. It was like the hiss of a venomous

snake. He kicked his feet frantically to change his direction of flight for a look back toward the crater. Far below on the crater's rim the great jaguar was snarling over its kills. But just above it and rising fast into the air was a flying Subterranean. Bob noticed quickly, despite the distance and the blue gloom, that

one of the injured warriors had some way managed to draw away from the ferocious beast and take the air. The warrior was rising swiftly, but drunkenly, as if he had lost control of his flyer. From his tuas tube shot another blue ray. It hissed

closer to its human target this time. Instantly Bob realized that the jaguar-mauled Subterranean was trying desperately to destroy him in the air. Only the creature's terrible injuries had interferred with his aim. Glancing down into the crater, Bob saw a score of

pygmy-sized objects dart suddenly into space, rising toward the rim. Recognizing pursuit he quickly aimed his two taas tubes at the ascending warriors. Grimly he pressed the buttons. The weapons recoiled slightly in his hands. He saw twin-beams flick out of the tubes Thin ouffs of blue smoke took shape in the crater as hali of the ascending Subterraneans vanished. Again he pressed the buttons. Again the deadly beams hissed forth on their mission of destruction. He found the air in the crater suddenly cleared of everything but thin puffs of smoke. He grinned coldly, realizing that at last he had begun settling his score with the gargantaun warriors of the Inner World. Another blue beam from the injured warrior hissed through the space directly above his head. The creature came on, murder-bent,

END OF PART ONE.

AND THE PARTY OF T

In this department we shall discuss, every stouch, topics of innerest to readers. The editors invite correspondence on all subjects directly or indirectly related to the stocias appearing in this imagesise. In case a special personal asswer is required,

"SKYLARK OF SPACE" ISSUE OF Editor, AMARING STORIES: I received the July Amazone Stones the numbers and I have not yet had time to read it although I have been lucky enough to secare a good many hack measures above 1 became aware of the existence of Amasimo Storma. I are looking forward to a year's enjoyment when my "Quarterly" comes through. In my opinion you have no one to touck Dr. Smith as a story writer of the more imag instive type. His style is may to read and holds the attestice from the beginning—it may be a trifle "colloquial," but after all few, if may, negmal people speak "correct" English. I hups I might stand a chance of getting the other two numbers of "Spacehounds." I re-ourse July and September issues for 1921. I have written twice to your representatives in London saking if I could obtain back numbers but they preserved a stony silence on the sub-ject. Please, Mr. Reiner, if possible, do your best to let me have these two numbers—what read in the August issue has only whetted tay ourisolty.

I also like Campbell as an author—bis

not the numb swing—and, after all, so statist how good the idea or plot behind the part, it must have that "scorething" which makes one forgot time and place and wake up at the ond

to read something from each of their pens Dr. W. A. Grasov, 14 Hopesown St. Bethgate, Sections

(If you will follow up in our "Discussions" dumns letters from correspondents saying that

they have back numbers, we think you will have little or no difficulty in petting the "Skytark" issue. We like what you say at the end et your letter about the undefinable "something"

A LETTER FROM A NEW BEADER OF AMAZING STORIES Editor, Astazzen Spoazza:

Though I am a new reader of A. S., having rud it for about new years, I just have to tell you have much I like the latest social, "The Swordsman of Sarvon," by Charles Closker, It is by far the less extense factors stoy I cover It is by far the less extense factors stoy I cover.

But the September issue is counterbalances they haven't—yet. But if so, their intelli-gence would be of such an entirely differen-nature than ones that it would be impossible I mean to say is that it would be an extremely are the mma thorowerh as Mr. Skidmere's No two civilizations could be so alike as that summathation

But, on the whole, your (our) margar y good, though set as good as it used to When do we set a second to last year's be. When do we get a secon man "Levinm"? Let's have some more stories by A. Hyatt Verrill. And what is the matter with Harl Vincent in the Monthly?

Just the same, Amazing Sponger is my Stf. Bearer Reaves

682 4th Ave., East, Williaton, No. Dak. P.S. I like the "Reprint Annual" idea. (We agree with We agree with you in your estimation of "Sweetsman of Sarvon." Giving a personality and emotions, such as we know them to electrons and atoms we think is newfacth fair in a purely researche piece of fiction. The story of the remance of Paul and Nega is of story of the rossuce of Past and Negs as or course quite fictation, but it is perfectly good practice to personily the storn and the mole-cule and on investigation we are some you will be a live to a save and ringels. We feel that Vincent is one of our firm friends and kee to set many more stories

A CORRESPONDENT IN

Editor, AMAZING STORES I saw Amazing Steams for the first time about five years ago and read it occasionally, but now I rarely evies one number. The Quarbut new I rarety east one number. In a type-trily children I extend put here. If I use a di-rect subscription I find that you have also ad-mirers on the Port and very often a member in last, that is the reason I do not subscribe di-

When the Lawrite to you! I am feeling the result to life in your may be like 1 for your work of the your work the law you will be the property of the lawrite in lawrite in the lawrite in Why do I write to you? I am feeling that with the same rate for subscription. I wish

J. I. TYNA, Praba I., Celetta, Carchericvakia.

(The writer of this very pleasure letter polorizes for any imperfections in his English. have chunged a few words to make Bitta smoother. It is always of great interest to us to get letters from distant countries and it is gratifying to feel that we have no appreciative a reader in the new country, new since the wir. You are perfectly right in your state. make a modest equal

A VERY INTERESTING LETTER FROM

I fed Japun Amazun Sream very good, so far as I have read at I have manged to show an in the state of the state of the state of 1950, and 1950, mmc of 1950 and all 1951. I credib free had some more back aumbers if I had been able to year, Marian and the state of th Sed August Amasono Sponses very good. recreed toom enough for the Quarterly which, however, I expect will be there this week. I can also get back mashers in Birmingham at reduced prices, I intend if possible to possens a complete set. A Danish friend in Denmark is also enjoying A. S.

edging from my experience of tack.

Amatino Stranzes is improving. I can maderitand some of your critical correspondent A. S. is definitely eritand some of your critical corre-n. In my opinion A. S. in defaultly g. It is so good that improvement in but men's judgments of perfection are th months had sente with sente AMAZING STORIES authors have already soled the other planets with incorporable inheen exploited

the Terrestrians.

Referring once more to the Sages of Eros,
Duan Swift would have been unserviful to
them, as he was to Sir Isaac Newton (Golliver in Lapota). Dean Swift is dead, but you
have revivided birn in "The Bire Karbarians" liver in Laperta). Dean Swift is dead, but have revivided him in "The Blue Barbaria and perhans in "A Voice Across the Veses. I am glid yen were able to recently by an English author. recently by an English author. If you she decide to swear reprints, let use ask for " Compact of the Moon," by André Lauri "The Night Lend" (abridged edition). "The Night Lend" (abridged edition). Returning to "that much" and "that io the referance is to the "Wide Wide World" the referance is to the "Wide Wide World" (in-resecretly nicknamed The Book of the Tearful Ellen) and to Chapter XVII. My preference is supported by "Modern English Usage," by H. W. Fawler, Clarender Press, Oxford, 1926; see

pedamic work.

THAT, The adverbial use "THAT. The adverbial use (when a was that high; be was that angry) is still more ga-literary; and in spoken English it now passes impossible, as in the second example, held unednested or vulcar." I also Professor Jameson found controval restive, whereas we now say restful, but in old English restive = restful. (Our here reas die but remain eternally entherned in

Plumbly let me may that my age is 46, but I have a friend of 22 who is not a book worm. He agrees with ree that Amazum Sreams should attract both old and young and ecis. So good luck and long life to

FRANCIS P. Kroner. If. P. KNIDEY, 152 Harden Road, Leamore, Walsall, Staffa, England. (Staffa = Staffordshire; Walsall pronounced

awe'l or Wawir'l.)
The French title of André Leuric's work is (This letter (This letter in passage of the control of the contr whose letters are printed in our "Dis-culumns who kave back numbers for con should have no treeble in getting all you on about mare to trecom its gentle at you and. We are positive that many of them could bought at the standard price. ' be bought at the manuard price. You compare two of our anthors to Dean Switt; the ought to make these very proof, as it is a com-plinent of the highest coder. Our impression is that the use of the word "that" as an ad-vert is almost typically English—you martly werh is alsecer typicany English-you rarel bear it in this part of the world. We shall out turnly hope to kear from you again from time

OLDTINE READER * WHO COPIES OF EARLY ISSUES FOR SALE Editor, AMARING STORIES Editor, Amazino Svoazzo

Your magazino is getting better and better
as the morchs pass by, but I still maintain
that you will have to insprove a great deal
mote if you wish to reich the quality of
literature attained by Amazino Youazz in
1926, 1927 and 1928. In these days stories
by A. Mervill, Borroughs, Gerret Smith, Verelli, Wells, and many other mainters were published in Amazino Syeazz. However, that

I have been making a sales talk, If you did not know it. I have bought and read and re-read every issue of Amazino Steatra since the first cos., which was in April, 1926. I also have almost all the Ourterlies. Knowing and that there are musty science fiction readers arribing to Amazina Stonias who would a great deal to get hold of some of the



SHÎRT FRFF SOIN THE GOLD BUSH Ston and think of the tremen doug selling force one Carlon FREE with every three. offers you. Why, man, it's a one TÎF call walk-away order everytimeno turn downs. The garmener are designed on Fifth Avenue, FREE

America's style center for finest quality men's apparel, Priced lower than at any time in fifteen competition that's got 'em all ORDERS and CASH Years FASY TheFREE give-away has caught the fancy of millions of people. hack for more. Bir cash con

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in this great business to the Money coming to you all the time. Send for Our Corgoous

Fall Outfit Today in manufactful goder genting Sump Hopery — Under Sharplined Co MAEL IN TILAT

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Address

QUIT TOBACCO





ALL THE SHEW

issues and any that they have mixed, I am willing to sell the cone that I have, which is more than one hundred. I have two of its more than one hundred. I have two of the third of majorations that I have, and I wish they would do no as soon as possible. I also have back tenses of several other science-fiction magazines.

sedemo-efection magazines. I would be very thoulded in you, my doer Edwar, if you would print my letter in your Edwar, if you would print my letter in your concerns the a basse to read the stories of those long up leases. I offer to sell these old issues with pleasure I have read them to to be the only one in severy their woulderful and the conception.

In a feware, I basky you far publishing the offer in your trader's relation, for it is not force in your trader's relation, for it is not continued to the continued of the conti

offer a chance to please many a science-fettle fan beyond all hopes of retribution? Weak Ensows, JOZZ Avenus K, Fort Madison, Lowa-

(We are very glod is publish your letter.

If the Ediber success in keeping up the standard of the magusine to a proper level, portupa he aboud he concent, but it is much nicer to feel that our definite efforts and improvements are telling their accy.—ZavraL.)

A LETTER FROM AN ENGLISH BEADER AND A WELL WISHER BRICK AND A WELL WISHER BRICK AWAZING STORES I have been resulted AMAZING SPECIES over since I saw one in a News Elsek in Shaftershay Avenue lending from Proafily Circular Avenue lending from Proafily Circular Lewis me 2/64, 66 in your sower, that is before they could be got in Woolworth for

and the control of th

affaire in year states, well, every one likes a flittle romano, but as our picture producers fail to saw, one can have too mich of a good theory.

An for your stories, I have not come across anyaking to good an "Sirjatat' and its sequel "Sirjata Tures." It is difficult to pick looks as other, at least in the instances which I as other, at least in the instances which I for the same of the stories of the same of the fact of the stories of the same of the same law of the same of the same of the same law of the same of the same of the same law of the same of the same of the same law of the same of the same of the same same of the same of the same of the same of the same same of the same same of the same same of the same same of the same of

od, teo.

A. C. Holle,
School House, 75 Sand St.,
Wentwick, S. E. 18,
London, England.

(We appreciate your kind letter. It is an interesting feature of our Discountons Columns that we get so many letters from freeless countries. Awarine Stronties is a very good fravelet. There is an idea here that the producers of

f productions and we hope to see, in the feature, some of our stories on the surese...car is all ready in the hands of one of the great time; an you see that in America, at least, we have y hopes for the future...Exercon.)

THE GRAVITY CONTROL SCROOL

Editor, AMAZEMS SPERIES

W. observe in the August AMAZEMS STORERS
on article under the beading "Discussions"
having reference to the universe of "Cravity"
as "position" the atoms together.
The article and the information of overgreen concerned
the information of overgreen concerned
the information of overgreen concerned
time to "Gravity" by the "Gravity-Carten,"
a new school of universal mechanics made rich
are school of universal mechanics made rich
are school of universal mechanics made rich

expansion, course recovered to the course of the course of

out there with themselving everywhere in his for plants down in form and order, while the ripants of the ripants down in form and order, while the ripants of the ripants and the remains and the ripants and the remains the state of the ripants of

is sende and way, and prois sende and way. G. F. Otsow, Sheldon, Iowa

(This letter we publish and leave it to tell its own story as there is not detail cough given to being out anything like an indequate criticum.—Koryon,)

A LETTER OF FRIENDLY CRITICISM
Soliton, AMARINO STORING:
Morey did a first piece of work far the
July cover of Amarino Storing. In fact the
lause as a whole was very good.
"Sherikan Receives, Ambanader" would have

mode a few less strey. I am hoping for a "The Man Down 'ended as I had, hoped would. It should have been published in the published in the published in the Hirt Victors members to give Australe Stream has been work.

"The published in the control of any Entry has does some fire surface for any Entry has does not been any one of the Entry has does not been any to be a Entry has does not be any to be a Entry has does not be a fire of the surface surface for the surface of the surface of the surface weight the surface of the surface of the surface weight the surface of the surface of the surface weight the surface of the surface of the surface of the surface weight the surface of the surface of the surface of the surface weight the surface of the surface of the surface of the surface that the surface of the surf

ed illustrations.
I hope that Edmand Hamilton and A. Hyatt
Verrill will return soon.
Jack Dassow,
4229 H. Sawyer Ave.,
Chicago, Ht.

(We are very glad that our work pleases yes. An Editor accupies the peculiar posiof meetal record of what his renders went. His furties is to please them by giving them good literature and escience and by maintain-ing the standard in all respects it saws even have an oficentizatal whore. Our effort is in shadestery it rever please fits renders. We have almost metalizated a staff of writers as it ap-pears quie clearly frome pour leiter. There is a reuse fix our belong somewhat limited in our choice of strikes and we are very plant is a reason for our choice of artists and we are very so our choice of artists and we are very so to get year favorable occasions on Morey. He consider that of our work. We consider ices a good deal of our work. We consider im and Wesse pretty much on a par. "The emurian Documents" have counse their course

A VERY NICE LETTER FROM MISS ROBR Editor, AMAZURE Spinister

Decter Smith's vigorous enslarght secessly, in reply to my compaign of "minerpreparati-tion," is one which should induce most critica

tion," is one which should induce most critica-with a wholesome respect.

The worthy Dr. has taught me one thing.
And that is seven to only an othere for your inferentian. Being a rather host person, I at was foolish enough to ask a friend to entire Durari's about. I am not trying to doing any medicar, but I should at least this it to be understood that the missepresentation was irroccess. However, as in duty bound, I must offer not entry Dr. Smith, but my follow send-And now, Dr. Smith, my Irish bleed re-rest to allow me to drain the successive doors

of gali and warmwood so lovingly prepared, in atter allence. Let us seas Dr. Smith's de-

Z. Letters. Harvens above. I hope Dr. Smith does not think I am so absorbly co-celed as to imagine that I have received even one letter to his buildred. As a matter of fact I have today received the feet initianties (mora expected) to mind my own business. nees expected) to some my own missions.

2. Logic and consisting attraction. Heat, beer, Liberal quantities of sacketoth and abbn.

4. Ob, Doctor Smith! Who is guilty of a supercontaines this time? Will all readers microproxecutions this time? Will all readers residueinty interested please look up my electer in the June inro. I should have thought it forward to appare that my allimates to consistency and versionalizade applied to these against the americals with Fafaira Danard, as indeed they were meant to. Death mys. When it is defaued without even an airang.

"When it is deliated without even in surrous at poor, that consistency and I are emplote strangers, etc." If my remarks, new disperved, were not as astempt in show lack of consistency and of persistenciate in connection with Dundel of persistenciate in connection with Dundel etc. of pericinalitate in connection with Dan-'s alleged cerissare of slang after the section the necknical obsesses, will Dr. Smith hindly tell me what they were. Dr. Smith is cube entitled to jump on me for incorrect statements, but when, in his afforts to add to effects of the deboole, he resorts to strip ping words from their content, and thrusts sweeping generalisations into my meeth, which I never uttered, I must voice a strong pro-

5. Who has suggested that the hook, "Creelty to Words" here colloquial language is corrected to their colloquial language is corrected to the colloquial language in L for cor. I leave near my letter again Dr. Smith.

6. No offence intended, picasa.

The ride of champion I decline for obvirus reasons. Let us force the sole incoses, such as reportition, on which, by the way, Dr. Smith is More, and remember that the principal issue of this cerrespondence was slang. I am one reader, and though I seek to seem on quintiess.

a fair hearing.

To stote, no death, it may appear a little
unfair that I have scient upon Dr. Smith, with
his relatively small doses of ulsage, so the target of entocies. The answer is that if yes
with to air a pressace thoroughly, you must
elect noncome hig county to do it for you. native goneson log enough to do it for you. The bigger the same you are up against or course, the more remote the chances of a favorable hearing. However, I came from a land of best ensure. Let us leave Dr. Smith, who has given the matter the porcessary po-licity, by involving his name in the correspond-ence, and more to breader lineaus.

In the name of sanity, what would the of the future been delaged with the current slang of gangeter and Wild West fiction? en me suriere been dezagen with the current alang of gangeter and Wild West Setion? Super-men of acience, with loose, distorted, de-guaded traventies at speech, are far more diffi-cult for me to believe, than the most incredi-ble happenings foreshadowed in these stories. his happenders extressions in which we have been one close with the completion at a measurement of the contrary, they may be a subject of the contrary, they can be a subject of the contrary, they can be a subject of the contrary, they can be a subject of the contrary they can be a subject of the contrary that it the level of the contrary that the contrary that the contrary period, the contrary that the contrary period of the princed word. It is a special of the princed word, in the whole purposes of the contrary period, the contrary period of the princed word. It is a special contrary period of the princed word, in the excellent contrary period of the princed word. In the excellent contrary period, the contrary period of the princed word. In the contrary period, the contrary period of the princed words are considered to the contrary period of the period of the contrary period of the period of t

ther authors, mentating upon to have at-it reseption, weekl appear to have at-uted his success to the slang rather than the wital qualities constituting a good tale. The acted accordingly. Now we have slang in eve ncreasing quantities; very little else in some mores. Not only is slang inflicted soon us, but, as has been pointed out recently, the latest in-novation is splitting. Leed knows what will happen next. Here we have the trend of the aversion is spiriting. Love me the read of the largest nearly like we have the trend of the largest nearly like the result of the control of the largest nearly like the result of the largest like lar thet Dr. Smith is the vicanions Father of part, as least, of this measures brood. To the hest of my knowledge the whole thing dates back to the time he departed fries the basis rack. Do we won't a world, and a magazine is which suchimis but stay is spoken? Does the con-templation of such a prospect agonal to Dr. Smith? Does it appeal to the thinking section amongst my co-readers? The choice, to my mind, is between literature in its true sense, education, refinement, and elementary decency on the one hand, and the uncough jurgen of gangdom on the other, to-

gether with its leatherne process of further vulgarities folisted upon us in the secred name of Versimilitude. Twesteen century stang and splitting. What a vision of the utilizate Utopici All that I now ask is to be allowed to retire into the convents in the lattern to your Indiagnose. For what It is searth, you now have the opinion of one reader, which have with even not pretend to speak perfect the way does not precised to speak perfect English, and is not a school-dencher. And now, in their ewn language, give the spostles of expectoration "a break." Years for less slang,

Orrer Ross

(The French have a saying which may be rendered, "Style is the Man." Taking a com-paration of the Man." Taking a com-inclined to say "Style is the Woman." We help thinking that Dr. Smith's great popularity as an author makes people accept with pleasure his slang. It certainly seemed to fit in very well with the characters using it, and probably affected a foreigner much more than it would a native of these United more than it would a native of these United Status of ours. We have greatly admired Miss Robb's presentation of her able of the con-troversy and we note particularly that she accens to have an undifies fund of good humor. She and Dr. Souldh in their controversy both have exhibited this trait, neither gives in to the other, yet there seems to be a hedge of the other, yet there seems to be a heidge of friendship across the Atlantic for these two people. Mass Robb's letter is so very good and so good natured that it can certainly speak for itself.—Enyon.)

A LETTER FROM PROPESSOR JAME. SON'S CREATOR WHICH WE ARE SURE WILL INTEREST HIS ADMIRERS Finter, AMARING STORIES

It gives me a greet deal of pleasure to learn that Prolessor Jameson has so many friends, and I am reality glad to clear up any succe-tanties regarding the adventures of the co-A reader suggests that the professor she





Comment of the second s

International Typewriter Ruchange, 331 W. Muarce St., Chicago.

Otroct No. or B. F. B. ..



Accountints command big in- ing knowledge unnecessary come. Thousands needed, we prepare you from ground About 12,000 Certified Public Our training is supervised Accountantly in U. S. Many W. B. Castenbulk A. am \$3,003 to \$20,000. We trein C. P. A. as I paretime for C. P. A. as I paretime for C. P. A. as II sitions. Previous bookkeens the Profession That Pave LASALLE EXTENSION UNIVERSITY



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END NO MONEY

3ft. Telescope

He Stopped Whiskey! Wife Wins Fight

Try it FREE

With Kidney Acids

s Fine, Feels 10 Years Younger - Uses Guaranteed Coutey Test.

tirely encated in the metal head. T shielded the train, the rays being too penetrote metal. Otherwise, as the regents, the professor's carees minsted then and there. To to realize his danger until it as his brain rected into oblivion from cemsed to stronger intensity. The explain of this problem escaped the professor's at tion in the stardling events which subseque followed. The fuzzy stilt wolfers, you remember, gave him to time for calls and a

As the narrative sintes, the first applicat f the green rays was sufficiently strong

tered the transition cube the second time of Was when he stood in the synatest danger. un excuse the professor's inspettous our

Why didn't the machine men ran at the bottom of the coun? Becamental composition, like lead and other day metals, was imprognable to runt. only awars, was unreganated to run. Only the colly, it was a metal yet unknown to ushape it was a nonzyliented elloy. Suffice it may, however, as 6W-418 explained to the feator, the parts of rectal did wear out fit in the water than anywhere due, either in my atmosphere. This wear, or greater falls though Processor james on any norms co-cerning it. I presume was poshably due to par-ticles of the sea bottom stirred up by move-ment of the machine men into the introdu-ment.

> Nam. R. Josep. (Address not realished by request.) (We will let this letter speak for knelf a pertainly calls for no comment from me

STORIES AND ARTISTS DISCUSSED Enter, AMARING STORERS: I enjoyed every story in the Sec A collection over month in the consequence of our magazine immensate, "The Swe of Sarvan" noss all the rest by a big z in my estimation. I hope it is the sure series of novels about Venus by Charles key. "The Lady of Light," by Jack W son is a time novelette, but he had better a sequel to it. Ves. the last of "The marries Doverseats" is the boat of the nossition Doverseats" is the boat of the have more sport stories of the future to "Suicide Durkee's Last Ride."

bupe that you will start another Skyfirth al soon. Why not put "The Skyfirth of ce" in book form yourself? It would surely ce" in book form yourself? It would surely

you do.

I would like to read more staties by Ardiu
L Zapat, Nat Scharlener, E.C. Earl Rego, also
dru Scharlener, E.C. Earl Rego, Also
dru Scharlen, Station & College, Sale L
B-II, A. Hysti Vervill, One Adolbert Kine
B-II, A. Hysti Vervill, One Adolbert Clare W
Earris, Philip Penetis Reseas, R. and Goo. Cure
W Earris, Philip Penetis Reseas, R. and Goo. C
Wallis, Marsas, and John W. Campbell, Jr.
la Awarton Sevalus. Continue the full-page pictures, u

(We will think very seriously over what you have angested and we hope that your letter will find response among our authors, Wesso is still with us. If we published the Skylark stories in hook form they would con-

OPPORTUNITY AD-LETS These columns will appear monthly in AMAZING STORIES

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ELIMINATE mistakes, send birthdate and ad-rem for your character analysis with yearly-ride chart. \$1.00. H. Messenger, \$25 Haines L. Kane, Pa.

AMAZING STORIES

BACK NUMBERS FOR SALE I have noticed that a sumber of your new readers desire to obtain old copies of AMAZING STORIZE, which, very often, are no longer available from the pasticities. I have a number of old capies, and I am willing to dispose of the lot at a reasonable price. I would appreciate your perincing this letter in the reader's column where those in-

HARRY R. PARCOAST

from correspondents who want back numbers.
We would suggest that you look over our
"Discussions" columns and write to some of who may have minord seeing this par-THE SPEED OF LIGHT ACCORDING TO THE RELATIVITY THEORY

AMARING STORES: Menzel's letter in the July, 1932, issue prompted me to write this letter. I so those eaghly disagree with anyons or everyone, who consends that the speed of light is the ultimate speed at which a material hody may travel, that I should like one of them to dispute my contention and it deing as to dispute absolute My cretestion lac A body (material)

My proof lies chiefly in the fact that the waves of which light consuts have no defenite speed. If a body is travelling my at 2 miles per second, light from this body would travel at 186,802 miles per second while the light in back of it would travel at 185,998 miles per hack of it wound travet at 193,75c muon per accord. That in freet wand he bluer than cedunary while that in the rear would be redder then cedunary. This is an effect first sociect by Deppler on nound, and has since been used "Lackyer's use of the Doppler principle to explain the distortion of bright chromosphere liter was the first introduction of it into solar

investigation, where it has piezed a preban "It has neen appear to determine the relation of the sen by phetographing in jertiposition of the spectra of the sent and west edges of the sun. A sareful engeliation of the Fraunhofer lines will show that the Fraunhofer lines will show the first lines will show that the Fraunhofer lines will show the first lines will show the show the first lines will show the first lines the Frauntster later will show that the Frauntster from the cast and west edges are mentally displaced. The displacement at the cast limb to the abotter wave length indicates that the extern equatorial edge of the and the the entern equatorial edge or one harman approaching the observer with a velocity of 2 Km/sec. and that therefore the sun rotates

(By St. John in his "Knowledge of the Suo" in the "Annual Report of the Smithsowinx Institute for 1930," page 18L) This poes to prove that the speed of a body which emits light must be added to the speed I the wave. New if a body were travelling which emen light most be soded to the speed of the wave. New if a body were travelling at the speed of 186,000 miles per second a beam of light in the direction of motors would of necessity travel at twice 186,000 or 372,000 soiles per second. It would all course cease to ha light to a stationary observer, but a ray having 36 the wave length of visible light. It would still he a beam of light to as observer on the body travelling at 184,000 miles per sec. So a body that could then my braves man the speed of light, leaving the body already travel-ling at the speed of light, would travel 156

times as fast as light.

If I'm not right please seems one correct me est at least give a more reasceable proof for will believe in the one that's most reasonable. Noel Waite.

(Dr. Meorel is a very high authority or astronomical and physical subjects and is a confirmed believer in relativity. We were very delighted to obtain from him the note on ing is get so the major. We have in acknowledge that ever authors are not a list troubled by limitations on the velocity of hodes and seem not to he troubled by the idea that the moved of light in the fastest that a body can go. We do not have the Doppler principle, an applied to light, likesten, that the velocity may vary. Mostar, that the velocity may vary.

transmission of light is not affected by the secthe spectrum, you will see that this imposes a ANOTHER WRITER DISAGREES

ANOTHER WRITER DIRACRESS WITH THE RELATIVITY THEORY OF THE VELOCITY OF LIGHT AND ITS EF-FECT ON BODIES WHICH WOULD REACH THIS VELOCITY (We have received letters from time to time Editor, Amarine Scours

For four years I've read Amazing Sycamo ngazines, and for four years I've waited po tiently for an authority or the subject of the velocity of light and the apparent effect on bodies that reach this velocity. At last you have printed a letter from such a man as I comider an authority on this partiphane, and I wish to say, in due respect to Dr. Mensel, that I do not agree with him. Why, may I ask, do all who write you conwhy, may I am, as all was write yet con-craing this matter, attribute awe inspiring, wrible power to the velocity of hight to change

to convert it sate a two dimensions super, or worse still to any that when an object reaches this speed, it is stopped from further accelera-tion as shough it had struck the powerbial brick I arecal to ven and all other intellitell me why no speed greater than thet light is attainable when light in only matter in a atrict sense of the word. It would be no hander theoretically to attain speeds greater than that of light, than it would be to pass a hour or so and thenh this out intelligently and without prejudice and not rise seeing the ques-tion simply and shearly, as I think I do as And, by the way, will you kindly explain to me why days and days are required by "rosca ships" for acceleration and deceleration, and why a "space ship" could not, without under effect on occupants, attain instantly from a

power understood), in the absence of inertia and other known impediments? Heats? Fletcher B. Poss. cher E. Phys., 363 N. Ewing, Dallas, Texas.

(What we have said about the letter well to what you say. You can hardly consider light to ha matter. It is supposed to he vibrations of the other and the trouble is that we do not know what ether is nod have no theoreti-ral section that we can assign to it. Dr. Menzel is a very distinguished exponent of the doctrine of reintivity. We are perfectly free to beof reintivity. We are perfectly free to be-lieve that the Einstein theories, in other words relativity, will be greatly medified from year to weer and we believe that confirmed relative for the variations in the direction of the light waves coming from Mercury, which placet has ng been a puzzle to intrecomers on account slight irregularities, as we may term them, these irregularities relativity nocounts for. Acceleration by the laws of inerere velocity has no effect on a body subjected weigh more in an elevator while it was atvehicle when it starts from rest and qui

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